



March 5, 2007

Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

# 5-28-46 DLB (Old Well Name – # 9 DLB 8-29-46)  
Fee Surface/Tribal Minerals  
SENE, Section 29-T4S-R6W (SHL)  
SWNW, Section 28-T4S-R6W (BHL)  
Duchesne County, Utah

Diana Whitney, Permitting - Petroleum Technician:

Enclosed please find the original copy of Bill Barrett Corporation's (BBC) application for permit to drill the above captioned well. Montgomery Archeological Consultants conducted a Class III archeological survey for this location, when it was known as the # 9 DLB 8-29-46. The results of this survey have been outlined in Montgomery's report dated December 6, 2006. Based on the findings, a determination of "no historic properties affected" is recommended for this site.

Please contact me at (303) 312-8546 if you need anything additional or have any questions.

Sincerely,

Reed Haddock  
Permit Analyst

Enclosures

**RECEIVED**

**MAR 07 2007**

**DIV. OF OIL, GAS & MINING**

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>BIA 14-20-H62-5500</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>UTE INDIAN TRIBE</b>
2. Name of Operator <b>BILL BARRETT CORPORATION</b>		7. If Unit or CA Agreement, Name and No. <b>N/A</b>
3a. Address <b>1099 18th Street, Suite 2300 Denver CO 80202</b>	3b. Phone No. (include area code) <b>(303) 312-8546</b>	8. Lease Name and Well No. <b># 5-28-46 DLB</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface <b>SENE, 1943' FNL, 473' FEL, Section 29, T4S, R6W</b> At proposed prod. zone <b>SWNW, 1980' FNL, 660' FWL, Section 28, T4S, R6W</b>		9. API Well No. <b>Pending 43-013-33583</b>
14. Distance in miles and direction from nearest town or post office* <b>Approximately 17.1 miles southwest of Duchesne, Utah</b>		10. Field and Pool, or Exploratory <b>Wildcat A-170 most</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>473' SHL; 660' BHL</b>	16. No. of acres in lease <b>N/A</b>	11. Sec., T. R. M. or Blk. and Survey or Area <b>Section 29-T4S-R6W U.S.B.&amp;M.</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>Approximately 47'</b>	19. Proposed Depth <b>8477'</b>	12. County or Parish <b>Duchesne</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6209' Ungraded Ground</b>	22. Approximate date work will start* <b>06/01/2007</b>	13. State <b>UT</b>
20. BLM/BIA Bond No. on file <b>Nationwide Bond #WYB000040</b>		
23. Estimated duration <b>45 days</b>		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>Reed Haddock</i>	Name (Printed/Typed) <b>Reed Haddock</b>	Date <b>03/05/2007</b>
-----------------------------------	---	---------------------------

Title <b>Permit Analyst</b>		
Approved by Signature <i>Bradley G. Hill</i>	Name (Printed/Typed) <b>BRADLEY G. HILL</b>	Date <b>05-14-07</b>
Title <b>ENVIRONMENTAL MANAGER</b>		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

Federal Approval of this  
Action is Necessary

surf 535959X  
4439396Y  
40.105987  
-110.578092

BHL 536304X  
4439388Y  
40.105897  
-110.574044

RECEIVED

MAR 07 2007

DIV. OF OIL, GAS & MINING

T4S, R6W, U.S.B.&M.

BILL BARRETT CORPORATION

Well location, #5-28-46 DLB, located as shown in the SE 1/4 NE 1/4 of Section 29, T4S, R6W, U.S.B.&M. Duchesne County, Utah.

S89°46'W - 2649.24' (G.L.O.)

S89°47'51"W - 2647.50' (Meas.)

1/2" Rebar,  
0.2' High

Set Stone

90°03'  
(G.L.O.)

5286.60' (G.L.O.)

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

#5-28-46 DLB

Elev. Ungraded Ground = 6209'

1943'

1980'

473'

660'

Bottom Hole

29

Sec. 28

NOTE:  
PROPOSED BOTTOM HOLE BEARS  
S88°05'01"E 1133.15' FROM THE  
PROPOSED WELL HEAD.

N00°19'22"E - 5272.45' (Meas.)

Set Marked  
Stone, Steel  
"C" Channel

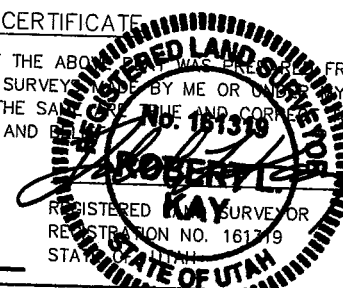
S89°52'W - 5291.88' (G.L.O.)



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)

LATITUDE = 40°06'21.61" (40.106003)

LONGITUDE = 110°34'43.68" (110.578800)

(NAD 27)

LATITUDE = 40°06'21.76" (40.106044)

LONGITUDE = 110°34'41.12" (110.578089)

LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 7-10-06	DATE DRAWN: 11-29-06
PARTY D.R. A.H. K.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE BILL BARRETT CORPORATION	

## **HAZARDOUS MATERIAL DECLARATION**

WELL NO. # 5-28-46 DLB - LEASE NO. BIA 14-20-H62-5500

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will not use, produce, or store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Super Amendments and Reauthorization Act (SARA) of 1986.

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport, or dispose less than the threshold planning quantity (TPQ) of any extremely hazardous substances as defined in 40 CFR 355.

## **DRILLING PLAN**

BILL BARRETT CORPORATION  
# 5-28-46 DLB  
SENE, 1943' FNL & 473' FEL, Section 29-T4S-R6W  
Duchesne County, Utah

1 - 3. **Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth</u></b>
Duchesne River/Uinta	Surface
Green River	2,674'
Douglas Creek	3,471'
Black Shale	4,151'
Castle Peak	4,434'
Wasatch	5,067' *
North Horn	7,002' *
TD	8,477'

\*PROSPECTIVE PAY

The Wasatch and the North Horn are primary objectives for oil/gas.

4. **Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
12 1/4"	surface	850'	9 5/8"	36#	J or K 55	ST&C	New
7 7/8"	surface	8,477'	5 1/2"	17#	N or I 80	LT&C	New

5. **Cementing Program**

9 5/8" Surface Casing	Approximately 290 sx Halliburton Light Premium with additives mixed at 12.3 ppg (yield = 1.43 ft <sup>3</sup> /sx) circulated to surface with 100% excess
5 1/2" Production Casing	Approximately 130 sx Halliburton Hi-Fill Modified cement with additives mixed at 11.0 ppg (yield = 3.81 ft <sup>3</sup> /sx). Approximately 760 sx Halliburton Light Premium Plus cement with additives mixed at 13.5 ppg (yield = 1.58 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC 850'.

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
40' - 850'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid System
850' - TD	8.6 - 10.6	42-52	15 cc or less	KCL Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. **BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 - 850'	No pressure control required
850' - TD	11" 3000# Ram Type BOP 11" 3000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary and choke manifold to be rated @ 3000 psi;	
- Ancillary equipment and choke manifold rated at 3,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

8. **Auxiliary equipment**

- Upper kelly cock; lower Kelly cock will be installed while drilling
- Inside BOP or stab-in valve (available on rig floor)
- Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

9. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

10. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4602 psi\* and maximum anticipated surface pressure equals approximately 2765 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

Bill Barrett Corporation  
Drilling Program  
# 5-29-46 DLB  
Duchesne County, Utah

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A - (0.22 x TD)

**11. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**12. Drilling Schedule**

Location Construction: Approximately May 15, 2007

Spud: Approximately June 1, 2007

Duration: 20 days drilling time

45 days completion time



# **BILL BARRETT CORPORATION**

**1099 18<sup>th</sup> St., Suite 2300**

**Denver, CO 80202**

Field: Brundage/Lake Canyon

Geological Basin: Uinta

Well Name: General

Location: Duchesne County, UT

## **KCL Polymer Drilling Fluid Recommendation**

Prepared for: Mr. Dominic Spencer

August 17, 2006

Submitted by:

Isaac Womack, Tech. Prof., Baroid product service line, Halliburton

1125 17<sup>th</sup> St., Suite 1900

Denver, CO 80202

303.675.4476

[isaac.womack@Halliburton.com](mailto:isaac.womack@Halliburton.com)

**HALLIBURTON**  
**Baroid**



**DRILLING PROGRAM BRIEFING**

Well total depth : 8,500' TMD

		<u>Hole Size</u>	<u>Casing</u>	<u>Length</u>
Casing design :	Surface	12 1/4"	9 5/8"	750'
	Production	7 7/8"	5 1/2"	8500'

\*Fluid density : 8.3 - 9.0 ppg from 0' to 750'  
8.6 - 10.0 ppg from 750' to 8500'

NOTE: Data taken from off-set wells in Duchesne County, UT

\*The drilling fluid density schedule is intended as a guideline only. Actual drilling fluid densities should be determined by well bore conditions and drilling parameters.

Estimated drilling days : 0' to 750' = 2 days (12 1/4" Hole)  
750' to 8,500' = 16days (7 7/8" Hole)

Total = 18 days

Drilling fluid systems : 0' to 750' - Freshwater Spud Mud  
750' to 8,500' - KCL Polymer

Solids control equipment : 0' - 8,500'  
- Two Shale Shakers  
- Desander / Desilter / Degasser  
- One High Speed Centrifuge  
(if available)

Est. total drilling fluid cost: \$ 17,219.00

**DRILLING FLUID PROGRAM SUMMARY**

The following drilling fluid systems are proposed for the Brundage Canyon well:

HOLE SIZE (in.)	DRILLING FLUID SYSTEM	FLUID DENSITY (ppg)	INTERVAL LENGTH  FROM - TO
12 1/4"	Freshwater spud mud fluid system	8.3 – 9.0	0' to 750'
8 3/4"	KCL Polymer fluid system	8.6 - 10.6	750' to 8,500'

**12 1/4" Hole Section ( 0' to 750' TMD )**

A freshwater spud mud drilling fluid system is recommended to drill this interval. Drill out conductor casing shoe with freshwater using additions of AQUAGEL and EZ-MUD to maintain fluid properties, as well as in hi-vi sweeps to facilitate hole cleaning. Pump BARACARB (25/50)/ sawdust sweeps prior to tripping out of the hole. Monitor the drill-string for tight connections. Expect minor to severe lost circulation in this interval. Pump sweeps of saw dust/ BARACARB at 5-10 ppb for minor seepage and sweeps of N-seal at 5 ppb and saw dust at 10 ppb for more severe losses. When total depth (TD) is reached make a wiper trip to the shoe to "clean up" the well bore, a string of 9 5/8" casing will then be set and cemented back to surface.

**7 7/8" Hole Section ( 750' to 8,500' TMD )**

After drilling the surface hole section, dump all of the drilling fluid used in the surface interval to the reserve pit. Check reserve pit water to make sure it is acceptable to use for drilling fluid.

Mud up with the following:

.5 lb./bbl N-Vis P

2 lb/bbls ZEOGEL

.5 lb/bbl BARACOR 700 (or phosphates over 1300 ppm (see corrosion program))

3% by volume KCL

Maintain 3% KCL in the reserve pit while drilling this section. (add 3.5 ppb for every 1% increase)

Test for % of KCL

((ml of .282 Silver Nitrate added \* 10,000)/3280) = %KCL

\*record and report this concentration on each mud report

Add BARACAT to reserve pit to flocculate out solids. This system should have sufficient YP to keep the hole clean while drilling this interval.

Lost Circulation: Should losses occur while drilling the lateral section add BARACARB (5) OR BARACARB (50) to control. (BARACARB can be acidized) Concentrations of BARACARB will be determined by the losses encountered. Expect increased lost circulation with increases in drilling fluid density. Continue to monitor and record all

**Brundage Canyon****Duchesne County, Utah**

instances of gas kicks, water flows and lost circulation, adjust mud weight as needed. Sweeps of LUBRA-BEADS may help reduce mechanical torque due to the dog-legs. When lateral has been drilled, circulate the hole clean and run production casing.

<b>Recommended Drilling Fluids Properties</b>							
<b>Drilling Depth (ft)</b>	<b>Fluid Density (lb/gal)</b>	<b>Funnel Viscosity (sec/qt)</b>	<b>API Filtrate (ml)</b>	<b>pH</b>	<b>Plastic Viscosity (cP)</b>	<b>Yield Point (lbs/100ft<sup>2</sup>)</b>	<b>Low Gravity Solids (% by Vol)</b>
0' – 750'	8.3 - 8.8	26 – 36	NC	7.0- 8.5	0 – 15	0 - 24	< 8
Surface casing: 9 5/8" set at 750' TMD							

- ◆ Spud with freshwater. Circulate through a reserve pit **if possible**.
- ◆ Mix 10.0-ppb AQUAGEL, 1.0 ppb EZ MUD, and 0.5-ppb lime in 50 bbl sweeps to improve well bore cleaning.
- ◆ Mix 1.0 gal. EZ-MUD down drill sting on connections for shale inhibition and optimum drill solids removal by the solids control equipment.
- ◆ Mix sweeps of saw dust/ BARACARB(25/50) at 5-10 ppb for minor seepage and N-seal at 5 ppb and saw dust at 10 ppb for more severe losses.
- ◆ If well bore conditions indicate, mud up to a KCL fluid system as indicated in the production interval.

<b>Drilling Depth (ft)</b>	<b>Fluid Density (lb/gal)</b>	<b>Funnel Viscosity (sec/qt)</b>	<b>API Filtrate (ml)</b>	<b>pH</b>	<b>Plastic Viscosity (cP)</b>	<b>Yield Point (lbs/100ft<sup>2</sup>)</b>	<b>Low Gravity Solids (% by Vol)</b>
750' – 8,500'	8.6 - 10.6	42 - 52	<20	10.5-12.0	0-15	0-20	< 8
Production casing: 5 1/2" set at 8,500' TMD							

- ◆ Drill out the surface casing shoe with KCL Polymer fluid system.
- ◆ Build initial pH with caustic soda then maintain with lime
- ◆ Additions of 0.5-ppb BARAZAN D can be used to enhance the low end rheology for optimum well bore cleaning and a lower solids drilling fluid.
- ◆ For seepage losses sweep the hole with 10.0-ppb BARACARB (25/50) in sweeps.
- ◆ For more severe losses sweep the hole with 5.0-ppb N-SEAL and 10.0-ppb Saw Dust. If losses can't be controlled, spot an 80.0-ppb HYDRO-PLUG pill across the loss zone(s).
- ◆ Spot pills of LUBRA-BREADS and/or TOURQE-LESS for additional torque and drag reduction as needed in dog-legs.



**Bill Barrett Corporation E-bill  
1099 18th Street - Suite 2300  
Denver, Colorado 80202**

Brundage Canyon General

Duchesne County, Utah  
United States of America

## **Cementing Recommendation**

Prepared for: Dominic Spencer  
August 15, 2006  
Version: 1

Submitted by:  
Pat Kundert  
Halliburton Energy Services  
1125 17th Street - Suite 1900  
Denver, Colorado 80202  
+303.886.0839

**HALLIBURTON**

## ***Job Information***

***9 5/8" Intermediate***

---

Brundage Canyon

General

Surface Casing

0 - 750 ft (MD)

Outer Diameter

9.625 in

Inner Diameter

8.921 in

Linear Weight

36 lbm/ft

Casing Grade

J-55

Surface Hole

0 - 750 ft (MD)

Inner Diameter

12.250 in

Job Excess

50 %

Mud Type

Water Based Mud

# HALLIBURTON

## Job Recommendation

9 5/8" Intermediate

### Fluid Instructions

Fluid 1: Water Spacer

Gelled Water Ahead

Fluid Density: 8.33 lbm/gal

Fluid Volume: 20 bbl

### Fluid 2: Primary Cement

Premium Plus - Type III

94 lbm/sk Premium Plus - Type III (Cement-api)

0.2 % Versaset (Thixotropic Additive)

2 % Calcium Chloride (Accelerator)

0.25 lbm/sk Flocele (Lost Circulation Additive)

Fluid Weight 14.50 lbm/gal

Slurry Yield: 1.43 ft<sup>3</sup>/sk

Total Mixing Fluid: 6.89 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 750 ft

Volume: 66.16 bbl

Calculated Sacks: 259.74 sks

Proposed Sacks: 260 sks

## ***Job Information***

## ***5 1/2" Production***

---

Brundage Canyon

General

Surface Casing

0 - 750 ft (MD)

Outer Diameter

9.625 in

Inner Diameter

8.921 in

Linear Weight

36 lbm/ft

Casing Grade

J-55

Production Casing

0 - 9500 ft (MD)

Outer Diameter

5.500 in

Inner Diameter

4.892 in

Linear Weight

17 lbm/ft

Casing Grade

N-80

Production Hole

750 - 9500 ft (MD)

Inner Diameter

7.875 in

Job Excess

25 %

Mud Type

Water Based Mud

Mud Weight

9.70 lbm/gal

## Job Recommendation

## 5 1/2" Production

### Fluid Instructions

Fluid 1: Water Spacer

KCL Water Preflush

Fluid Density: 8.33 lbm/gal

Fluid Volume: 10 bbl

Fluid 2: Lead Cement – (3500 – 750')

Halliburton Hi-Fill Modified

94 lbm/sk Type 5 Cement (Cement)

16 % Bentonite (Light Weight Additive)

0.75 % Econolite (Light Weight Additive)

7.5 lbm/sk Gilsonite (Lost Circulation Additive)

2 lbm/sk Granulite TR 1/4 (Lost Circulation Additive)

3 % Salt (Salt)

0.2 % HR-7 (Retarder)

Fluid Weight 11 lbm/gal

Slurry Yield: 3.81 ft<sup>3</sup>/sk

Total Mixing Fluid: 23 Gal/sk

Top of Fluid: 750 ft

Calculated Fill: 2750 ft

Volume: 106.07 bbl

Calculated Sacks: 156.32 sks

Proposed Sacks: 160 sks

Fluid 3: Tail Cement – (TD – 3500')

Halliburton Light Premium Plus (Type 5)

3 % KCL (Clay Control)

1 % Econolite (Light Weight Additive)

0.5 % Halad(R)-322 (Low Fluid Loss Control)

0.6 % HR-5 (Retarder)

0.25 lbm/sk Flocele (Lost Circulation Additive)

1 lbm/sk Granulite TR 1/4 (Lost Circulation Additive)

Fluid Weight 13.50 lbm/gal

Slurry Yield: 1.58 ft<sup>3</sup>/sk

Total Mixing Fluid: 7.77 Gal/sk

Top of Fluid: 3500 ft

Calculated Fill: 6000 ft

Volume: 232.46 bbl

Calculated Sacks: 826.05 sks

Proposed Sacks: 830 sks



## # 5-28-46 DLB Proposed Cementing Program

<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (850' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 12.3 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.43 ft <sup>3</sup> /sk
0.25 lbm/sk Ploy-E-Flake	Total Mixing Fluid: 10.6 Gal/sk
	Top of Fluid: 0'
	Calculated Fill: 850'
	Volume: 106.67 bbl
	<b>Proposed Sacks: 290 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (2971' - 850')</b>	
Halliburton Hi-Fill Modified	Fluid Weight: 11.0 lbm/gal
16.0% Bentonite	Slurry Yield: 3.81 ft <sup>3</sup> /sk
0.75% Ecpnolite	Total Mixing Fluid: 23.00 Gal/sk
7.5 lbm/sk Gilsonite	Top of Fluid: 850'
2.0 lbm/sk Granulite TR	Calculated Fill: 2,121'
3.0% Salt	Volume: 81.81 bbl
0.2% HR-7	<b>Proposed Sacks: 130 sks</b>
<b>Tail Cement - (8477' - 2971')</b>	
Halliburton Light Premium Plus	Fluid Weight: 13.5 lbm/gal
3.0% KCl	Slurry Yield: 1.58 ft <sup>3</sup> /sk
1.0% Econolite	Total Mixing Fluid: 7.77 Gal/sk
0.5% Halad®-322	Top of Fluid: 2,971'
0.6% HR-5	Calculated Fill: 5,506'
0.25 lbm/sk Flocele	Volume: 212.38 bbl
1.0 lbm/sk Granulite	<b>Proposed Sacks: 760 sks</b>

Well name:

**Brundage / Lake Canyon General**Operator: **Bill Barrett Corporation**String type: **Surface**Location: **Duchesne County, UT****Design parameters:****Collapse**

Mud weight: 8.60 ppg

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.10

**Burst**

Max anticipated surface

pressure: 303 psi

Internal gradient: 0.22 psi/ft

Calculated BHP 468 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.80 (J)

Premium: 1.80 (J)

Body yield: 1.80 (B)

Tension is based on buoyed weight.

Neutral point: 655 ft

**Environment:**

H2S considered? No

Surface temperature: 70.00 °F

Bottom hole temperature: 79 °F

Temperature gradient: 1.22 °F/100ft

Minimum section length: 750 ft

Cement top: Surface

Non-directional string.

**Re subsequent strings:**

Next setting depth: 8,500 ft

Next mud weight: 9.700 ppg

Next setting BHP: 4,283 psi

Fracture mud wt: 12.000 ppg

Fracture depth: 750 ft

Injection pressure 468 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	750	9.625	36.00	J-55	ST&C	750	750	8.796	53.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	335	2020	6.029	468	3520	7.53	24	394	16.72 J

Prepared Dominic Spencer  
by: Bill BarrettPhone: (303) 312-8143  
FAX: (303) 312-8195Date: July 21, 2006  
Denver, Colorado**Remarks:**Collapse is based on a vertical depth of 750 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes.  
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name: **Brundage / Lake Canyon General**  
 Operator: **Bill Barrett Corporation**  
 String type: **Production**  
 Location: **Duchesne County, UT**

**Design parameters:**

**Collapse**

Mud weight: 9.70 ppg

Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.10

**Environment:**

H2S considered? No  
 Surface temperature: 70.00 °F  
 Bottom hole temperature: 186 °F  
 Temperature gradient: 1.22 °F/100ft  
 Minimum section length: 1,500 ft

**Burst**

Max anticipated surface

pressure: 2,697 psi

Internal gradient: 0.22 psi/ft

Calculated BHP 4,787 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 8,103 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9500	5.5	17.00	N-80	LT&C	9500	9500	4.767	327.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4787	6290	1.314	4787	7740	1.62	138	348	2.53 J

Prepared Dominic Spencer  
 by: Bill Barrett

Phone: (303) 312-8143  
 FAX: (303) 312-8195

Date: August 11, 2006  
 Denver, Colorado

**Remarks:**

Collapse is based on a vertical depth of 9500 ft, a mud weight of 9.7 ppg. The casing is considered to be evacuated for collapse purposes.  
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

# **I-80 Performance Property Comparison**

Outside Diameter, inch	Weight T & C, lb per ft	Thread Type	I-80 Performance Properties						J-55 Performance Properties						N-80 Performance Properties					
			Collapse, psi	Burst, psi	Tension, 1000 lbs		Maximum Set Depth, feet		Collapse, psi	Burst, psi	Tension, 1000 lbs		Maximum Set Depth, feet		Collapse, psi	Burst, psi	Tension, 1000 lbs		Maximum Set Depth, feet	
					Pipe Body Yield	Joint Strength					Pipe Body Yield	Joint Strength					Pipe Body Yield	Joint Strength		
4.500	9.50	Short	3900	6380	221	138	6930		3310	4380	152	101	5890		3900	6380	221	143	6930	
	10.50	Short	4940	6970	241	173	8780		4010	4790	165	132	7000		4940	6970	241	186	8780	
	11.60	Long	6350	7780	267	201	9610		4960	5350	184	162	7760		6350	7780	267	223	10680	
5.500	14.00	Short	3620	6210	322	234	6440		3120	4270	222	172	5550		3620	6210	322	243	6440	
	15.50	Long	4990	7000	361	282	8870		4040	4810	248	217	7180		4990	7000	361	306	8870	
	17.00	Long	6280	7740	397	320	10470		4910	5320	273	247	8060		6280	7740	397	348	11170	
7.000	20.00	Short	2740	5440	460	320	4870		2270	3740	316	234	4040		2740	5440	460	331	4870	
	23.00	Long	3830	6340	532	428	6810		3270	4360	366	313	5810		3830	6340	532	442	6810	
	26.00	Long	5410	7240	604	502	9620		4320	4980	415	367	7680		5410	7240	604	519	9620	
8.625	24.00	Short	1430	4290	555	337	2540		1370	2950	381	244	2440		1430	4290	555	346	2540	
	28.00	Long	2160	4930	636	478	3840		1880	3390	437	348	3340		2160	4930	636	493	3840	
	32.00	Long	3050	5710	732	574	5420		2530	3930	503	417	4500		3050	5710	732	591	5420	

# **I-80 Dimensions, Torques and Hydro-Test Pressures**

Outside Diameter, inch	Weight T & C, lb per ft	Thread Type	Dimensions, inch					Make-Up Torque			Hydro- Test Pressure, psi
			Wall Thickness	Inside Diameter	Drift Diameter	Coupling Outside Diameter	Make-up Loss	ft x lbs			
								Optimum	Minimum	Maximum	
4.500	9.50	Short	0.205	4.090	3.965	5.000	2.000	1380	1040	1730	5800
	10.50	Short	0.224	4.052	3.927	5.000	2.625	1790	1340	2240	6400
	11.60	Long	0.250	4.000	3.875	5.000	3.000	2190	1640	2740	7100
5.500	14.00	Short	0.244	5.012	4.887	6.050	2.875	2340	1760	2930	5700
	15.50	Long	0.275	4.950	4.825	6.050	3.500	2950	2210	3690	6400
	17.00	Long	0.304	4.892	4.767	6.050	3.500	3350	2510	4190	7100
7.000	20.00	Short	0.272	6.456	6.331	7.656	3.125	3200	2400	4000	5000
	23.00	Long	0.317	6.366	6.250	7.656	4.000	4280	3210	5350	5800
	26.00	Long	0.362	6.276	6.151	7.656	4.000	5020	3770	6280	6600
8.625	24.00	Short	0.264	8.097	7.972	9.625	3.000	3370	2530	4210	3900
	28.00	Long	0.304	8.017	7.892	9.625	4.500	4780	3590	5980	4500
	32.00	Long	0.352	7.921	7.875	9.625	4.500	5740	4310	7180	5200

1. API Bulletin 5C3, Sixth Edition, October 1994 was used to determine the listed properties.
2. The vertical set depth was computed using a 9.625 lb. per U.S. gallon mud, and safety factors of 1.125, 1.0 and 1.8 respectively, for collapse, burst and tension.
3. Products are available plain end and with IPSCO's premium connects QB1 and QB2.
4. As a service, IPSCO offers casing string designs upon request.

The information and data contained herein are accurate to our knowledge, based upon standard industry calculations. Buyers are encouraged to make their own evaluations of the above derived performance properties for their particular use. The specific warranty applicable to these goods is as contained in IPSCO's Order Acknowledgment, Conditions of Sale.



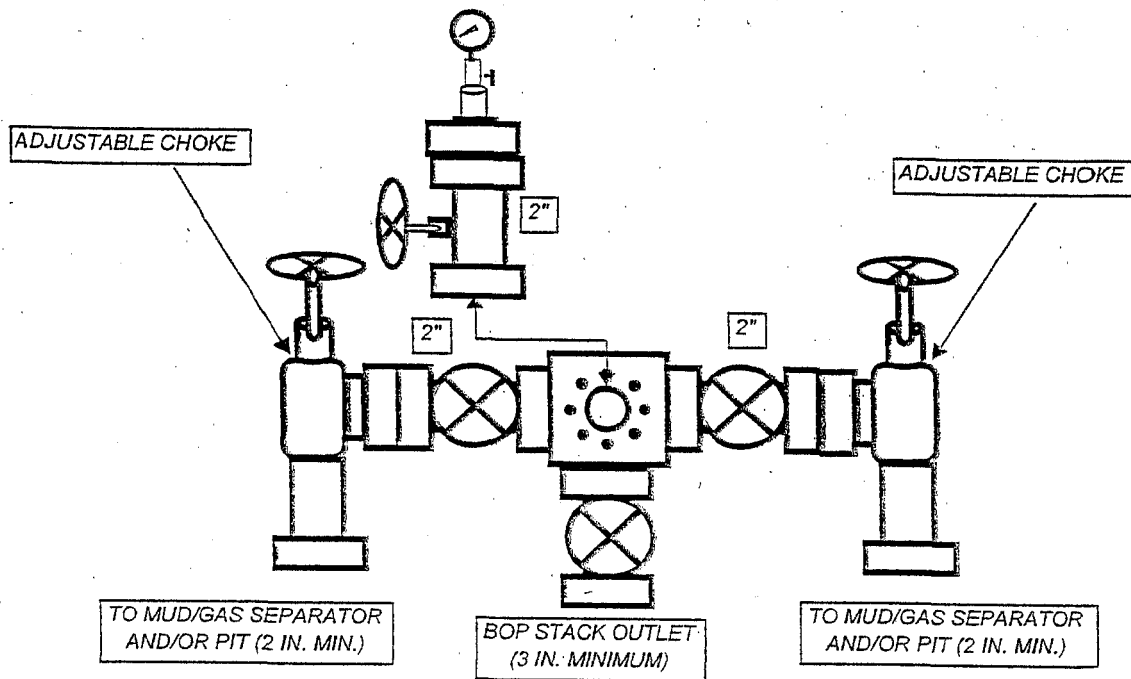
P.O. Box 18  
Camanche, Iowa 52730  
Phone: (563) 242-0000  
Toll Free: 1-800-950-4772

400 505-3rd Street SW  
Calgary, Alberta T2P 3E6  
Phone: (403) 543-8000  
Toll Free: 1-877-780-7560

P.O. Box 1670  
Regina, Saskatchewan S4P 3C7  
Phone: (306) 924-7700  
Toll Free: 1-800-667-1616

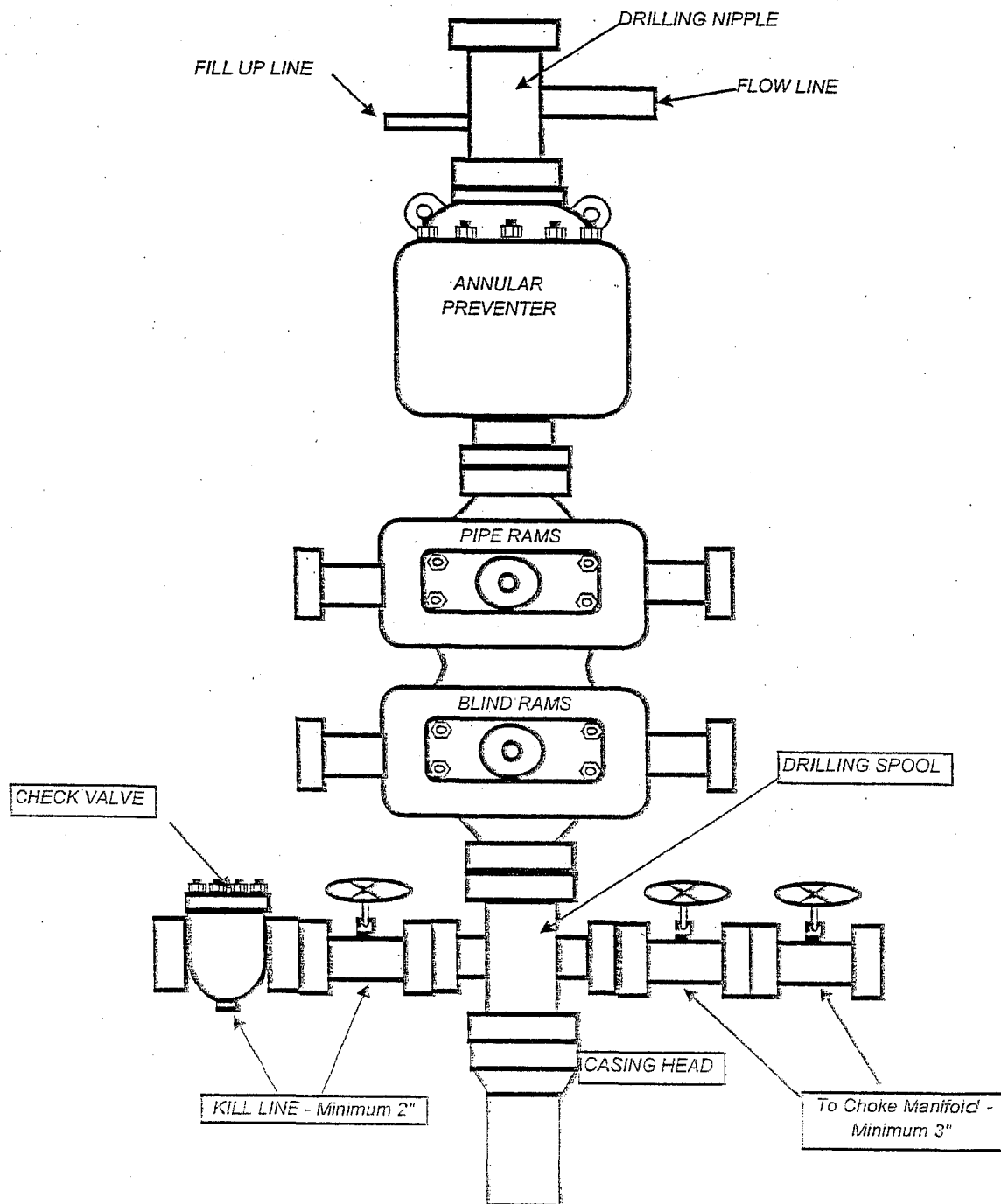
# BILL BARRETT CORPORATION

## TYPICAL 3,000 p.s.i. CHOKE MANIFOLD



# BILL BARRETT CORPORATION

## TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER





# **Weatherford**

## **Drilling Services**

---

## **Proposal**

---



**Bill Barrett Corporation**

#5-28-46 DLB

DUCHESNE COUNTY, UTAH

WELL FILE: **PLAN 2**

JANUARY 30, 2007

---

**Weatherford International, Ltd.**

15710 JFK Blvd. Ste. 700  
Houston, Texas 77032 USA  
+1.281.260.1300 Main  
+1.281.260.4730 Fax  
[www.weatherford.com](http://www.weatherford.com)



#5-28-46 DLB  
SEC 29 T4S R6W  
1943' FNL, 473' FEL  
DUCESNE COUNTY, UTAH

#### WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#5-28-46	0.00	0.00	7208677.01	1898079.36	40°06'21.610N	110°34'43.680W	N/A

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	91.92	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	91.92	300.00	0.00	0.00	0.00	91.92	0.00	NUGDE
3	600.00	3.00	45.00	599.86	5.55	5.55	1.00	45.00	5.36	HOLD
4	1060.77	3.00	45.00	1060.00	22.60	22.60	0.00	0.00	21.83	TURN
5	1186.94	3.00	93.26	1186.00	24.89	28.59	2.00	90.00	27.74	KOP
6	1724.29	13.75	93.26	1716.84	20.44	106.60	2.00	0.00	105.86	HOLD
7	5655.02	13.75	93.26	5534.97	-32.69	1039.17	0.00	0.00	1039.68	DROP
8	6440.56	0.00	0.00	6313.00	-38.03	1132.80	1.75	180.00	1133.44	HOLD
9	8476.56	0.00	0.00	8349.00	-38.03	1132.80	0.00	0.00	1133.44	PBHL #5-28-46

#### SITE DETAILS

#5-28-46 DLB PAD

Site Centre Latitude: 40°06'21.610N  
Longitude: 110°34'43.680W

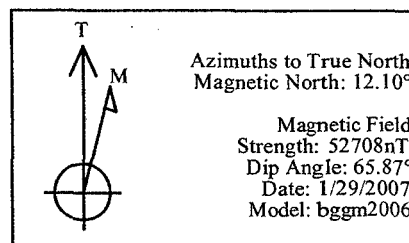
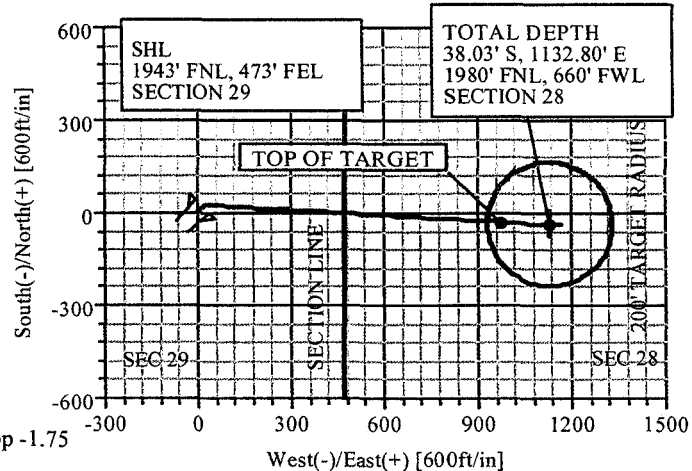
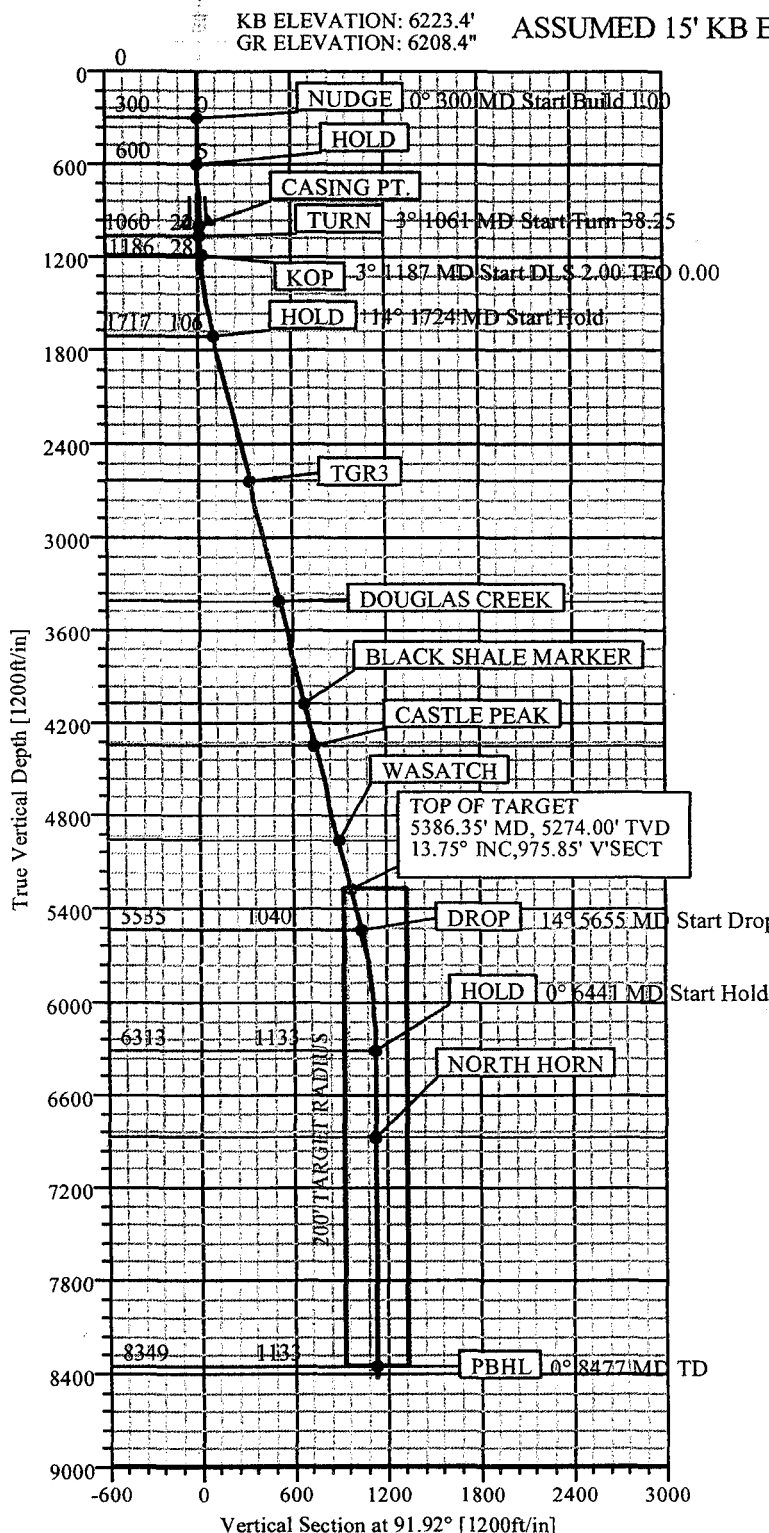
Ground Level: 6208.04  
Positional Uncertainty: 0.00  
Convergence: 0.59

#### CASING DETAILS

No.	TVD	MD	Name	Size
1	1000.00	1000.69	CASING PT.	0.000

#### FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	2639.00	2673.64	TGR3
2	3414.00	3471.50	DOUGLAS CREEK
3	4074.00	4150.96	BLACK SHALE MARKER
4	4349.00	4434.07	CASTLE PEAK
5	4964.00	5067.21	WASATCH
6	6874.00	7001.56	NORTH HORN



TOTAL CORRECTION TO TRUE NORTH: 12.10°



Weatherford®

Plan: Plan #2 (#5-28-46/1)

Created By: ROBERT H. SCOTT

Date: 1/30/2007



# WEATHERFORD DRILLING SERVICES

## WELL PLAN REPORT

Company: BILL BARRETT CORP	Date: 1/30/2007	Time: 13:16:06	Page: 1
Field: DUCHESNE COUNTY, UTAH	Co-ordinate(NE) Reference:	Site: #5-28-46 DLB PAD, True North	
Site: #5-28-46 DLB PAD	Vertical (TVD) Reference:	KB 6223.0	
Well: #5-28-46	Section (VS) Reference:	Well (0.00N,0.00E,91.92Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Plan: Plan #2	Date Composed: 1/29/2007	
	Version: 1	
Principal: Yes	Tied-to: From Surface	

Field: DUCHESNE COUNTY, UTAH

Map System: US State Plane Coordinate System 1983	Map Zone: Utah, Central Zone
Geo Datum: GRS 1980	Coordinate System: Site Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: bggm2006

Well: #5-28-46	Slot Name:
Well Position: +N/-S 0.00 ft Northing: 7208677.01 ft	Latitude: 40 6 21.610 N
+E/-W 0.00 ft Easting: 1898079.36 ft	Longitude: 110 34 43.680 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface		
Current Datum: KB	Tie-on Depth: 0.00 ft		
Magnetic Data: 1/29/2007	Above System Datum: Mean Sea Level		
Field Strength: 52708 nT	Declination: 12.10 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 65.87 deg		
ft	+E/-W	Direction	
	ft	deg	
0.00	0.00	0.00	91.92

Site: #5-28-46 DLB PAD	
Site Position: Northing: 7208677.01 ft	Latitude: 40 6 21.610 N
From: Geographic Easting: 1898079.36 ft	Longitude: 110 34 43.680 W
Position Uncertainty: 0.00 ft	North Reference: True
Ground Level: 6208.04 ft	Grid Convergence: 0.59 deg

### Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	91.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	91.92	300.00	0.00	0.00	0.00	0.00	0.00	91.92	
600.00	3.00	45.00	599.86	5.55	5.55	1.00	1.00	0.00	45.00	
1060.77	3.00	45.00	1060.00	22.60	22.60	0.00	0.00	0.00	0.00	
1186.94	3.00	93.26	1186.00	24.89	28.59	2.00	0.00	38.25	90.00	
1724.29	13.75	93.26	1716.84	20.44	106.60	2.00	2.00	0.00	0.00	
5655.02	13.75	93.26	5534.97	-32.69	1039.17	0.00	0.00	0.00	0.00	
6440.56	0.00	0.00	6313.00	-38.03	1132.80	1.75	-1.75	0.00	180.00	
8476.56	0.00	0.00	8349.00	-38.03	1132.80	0.00	0.00	0.00	0.00	PBHL #5-28-46

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
300.00	0.00	91.92	300.00	0.00	0.00	0.00	0.00	0.00	0.00	NUDGE
400.00	1.00	45.00	399.99	0.62	0.62	0.60	1.00	1.00	0.00	
500.00	2.00	45.00	499.96	2.47	2.47	2.38	1.00	1.00	0.00	
600.00	3.00	45.00	599.86	5.55	5.55	5.36	1.00	1.00	0.00	HOLD
700.00	3.00	45.00	699.73	9.25	9.25	8.94	0.00	0.00	0.00	
800.00	3.00	45.00	799.59	12.95	12.95	12.51	0.00	0.00	0.00	
900.00	3.00	45.00	899.45	16.65	16.65	16.09	0.00	0.00	0.00	
1000.00	3.00	45.00	999.31	20.36	20.36	19.66	0.00	0.00	0.00	
1000.69	3.00	45.00	1000.00	20.38	20.38	19.69	0.00	0.00	0.00	CASING PT.
1060.77	3.00	45.00	1060.00	22.60	22.60	21.83	0.00	0.00	0.00	TURN
1100.00	3.00	60.01	1099.18	23.85	24.23	23.41	2.00	0.00	38.25	
1186.94	3.00	93.26	1186.00	24.89	28.59	27.74	1.97	0.00	38.25	KOP
1200.00	3.26	93.26	1199.04	24.85	29.31	28.46	2.00	2.00	0.00	

# WEATHERFORD DRILLING SERVICES

## WELL PLAN REPORT

**Company:** BILL BARRETT CORP  
**Field:** DUCHESNE COUNTY, UTAH  
**Site:** #5-28-46 DLB PAD  
**Well:** #5-28-46  
**Wellpath:** 1

**Date:** 1/30/2007 **Time:** 13:16:06 **Page:** 2  
**Co-ordinate(NE) Reference:** Site: #5-28-46 DLB PAD, True North  
**Vertical (TVD) Reference:** KB 6223.0  
**Section (VS) Reference:** Well (0.00N,0.00E,91.92Azi)  
**Survey Calculation Method:** Minimum Curvature **Db:** Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
1300.00	5.26	93.26	1298.76	24.42	36.72	35.88	2.00	2.00	0.00	
1400.00	7.26	93.26	1398.16	23.80	47.61	46.79	2.00	2.00	0.00	
1500.00	9.26	93.26	1497.11	22.99	61.96	61.15	2.00	2.00	0.00	
1600.00	11.26	93.26	1595.51	21.97	79.74	78.96	2.00	2.00	0.00	
1700.00	13.26	93.26	1693.22	20.77	100.94	100.19	2.00	2.00	0.00	
1724.29	13.75	93.26	1716.84	20.44	106.60	105.86	2.00	2.00	0.00	HOLD
1800.00	13.75	93.26	1790.38	19.42	124.57	123.84	0.00	0.00	0.00	
1900.00	13.75	93.26	1887.52	18.07	148.29	147.60	0.00	0.00	0.00	
2000.00	13.75	93.26	1984.65	16.72	172.02	171.36	0.00	0.00	0.00	
2100.00	13.75	93.26	2081.79	15.36	195.74	195.12	0.00	0.00	0.00	
2200.00	13.75	93.26	2178.92	14.01	219.47	218.87	0.00	0.00	0.00	
2300.00	13.75	93.26	2276.06	12.66	243.19	242.63	0.00	0.00	0.00	
2400.00	13.75	93.26	2373.20	11.31	266.92	266.39	0.00	0.00	0.00	
2500.00	13.75	93.26	2470.33	9.96	290.64	290.14	0.00	0.00	0.00	
2600.00	13.75	93.26	2567.47	8.60	314.37	313.90	0.00	0.00	0.00	
2673.64	13.75	93.26	2639.00	7.61	331.84	331.40	0.00	0.00	0.00	TGR3
2700.00	13.75	93.26	2664.60	7.25	338.09	337.66	0.00	0.00	0.00	
2800.00	13.75	93.26	2761.74	5.90	361.82	361.41	0.00	0.00	0.00	
2900.00	13.75	93.26	2858.87	4.55	385.54	385.17	0.00	0.00	0.00	
3000.00	13.75	93.26	2956.01	3.20	409.27	408.93	0.00	0.00	0.00	
3100.00	13.75	93.26	3053.14	1.85	432.99	432.69	0.00	0.00	0.00	
3200.00	13.75	93.26	3150.28	0.49	456.72	456.44	0.00	0.00	0.00	
3300.00	13.75	93.26	3247.41	-0.86	480.44	480.20	0.00	0.00	0.00	
3400.00	13.75	93.26	3344.55	-2.21	504.17	503.96	0.00	0.00	0.00	
3471.50	13.75	93.26	3414.00	-3.18	521.13	520.94	0.00	0.00	0.00	DOUGLAS CREEK
3500.00	13.75	93.26	3441.69	-3.56	527.89	527.71	0.00	0.00	0.00	
3600.00	13.75	93.26	3538.82	-4.91	551.62	551.47	0.00	0.00	0.00	
3700.00	13.75	93.26	3635.96	-6.27	575.34	575.23	0.00	0.00	0.00	
3800.00	13.75	93.26	3733.09	-7.62	599.07	598.98	0.00	0.00	0.00	
3900.00	13.75	93.26	3830.23	-8.97	622.79	622.74	0.00	0.00	0.00	
4000.00	13.75	93.26	3927.36	-10.32	646.52	646.50	0.00	0.00	0.00	
4100.00	13.75	93.26	4024.50	-11.67	670.24	670.26	0.00	0.00	0.00	
4150.96	13.75	93.26	4074.00	-12.36	682.33	682.36	0.00	0.00	0.00	BLACK SHALE MAR
4200.00	13.75	93.26	4121.63	-13.02	693.97	694.01	0.00	0.00	0.00	
4300.00	13.75	93.26	4218.77	-14.38	717.69	717.77	0.00	0.00	0.00	
4400.00	13.75	93.26	4315.90	-15.73	741.42	741.53	0.00	0.00	0.00	
4434.07	13.75	93.26	4349.00	-16.19	749.50	749.62	0.00	0.00	0.00	CASTLE PEAK
4500.00	13.75	93.26	4413.04	-17.08	765.14	765.28	0.00	0.00	0.00	
4600.00	13.75	93.26	4510.18	-18.43	788.87	789.04	0.00	0.00	0.00	
4700.00	13.75	93.26	4607.31	-19.78	812.59	812.80	0.00	0.00	0.00	
4800.00	13.75	93.26	4704.45	-21.14	836.32	836.55	0.00	0.00	0.00	
4900.00	13.75	93.26	4801.58	-22.49	860.04	860.31	0.00	0.00	0.00	
5000.00	13.75	93.26	4898.72	-23.84	883.77	884.07	0.00	0.00	0.00	
5067.21	13.75	93.26	4964.00	-24.75	899.71	900.03	0.00	0.00	0.00	WASATCH
5100.00	13.75	93.26	4995.85	-25.19	907.49	907.83	0.00	0.00	0.00	
5200.00	13.75	93.26	5092.99	-26.54	931.22	931.58	0.00	0.00	0.00	
5300.00	13.75	93.26	5190.12	-27.89	954.94	955.34	0.00	0.00	0.00	
5386.35	13.75	93.26	5274.00	-29.06	975.43	975.85	0.00	0.00	0.00	TOP OF TARGET
5400.00	13.75	93.26	5287.26	-29.25	978.67	979.10	0.00	0.00	0.00	
5500.00	13.75	93.26	5384.39	-30.60	1002.39	1002.85	0.00	0.00	0.00	
5600.00	13.75	93.26	5481.53	-31.95	1026.12	1026.61	0.00	0.00	0.00	
5655.02	13.75	93.26	5534.97	-32.69	1039.17	1039.68	0.00	0.00	0.00	DROP

# WEATHERFORD DRILLING SERVICES

## WELL PLAN REPORT

**Company:** BILL BARRETT CORP  
**Field:** DUCHESNE COUNTY, UTAH  
**Site:** #5-28-46 DLB PAD  
**Well:** #5-28-46  
**Wellpath:** 1

**Date:** 1/30/2007 **Time:** 13:16:06 **Page:** 3  
**Co-ordinate(NE) Reference:** Site: #5-28-46 DLB PAD, True North  
**Vertical (TVD) Reference:** KB 6223.0  
**Section (VS) Reference:** Well (0.00N,0.00E,91.92Azi)  
**Survey Calculation Method:** Minimum Curvature **Db:** Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
5700.00	12.96	93.26	5578.74	-33.28	1049.54	1050.07	1.75	-1.75	0.00	
5800.00	11.21	93.26	5676.52	-34.48	1070.44	1071.00	1.75	-1.75	0.00	
5900.00	9.46	93.26	5774.89	-35.50	1088.35	1088.93	1.75	-1.75	0.00	
6000.00	7.71	93.26	5873.77	-36.35	1103.26	1103.85	1.75	-1.75	0.00	
6100.00	5.96	93.26	5973.05	-37.02	1115.14	1115.75	1.75	-1.75	0.00	
6200.00	4.21	93.26	6072.66	-37.53	1123.98	1124.61	1.75	-1.75	0.00	
6300.00	2.46	93.26	6172.48	-37.86	1129.79	1130.43	1.75	-1.75	0.00	
6400.00	0.71	93.26	6272.44	-38.01	1132.55	1133.19	1.75	-1.75	0.00	
6440.56	0.00	0.00	6313.00	-38.03	1132.80	1133.44	1.75	-1.75	0.00	HOLD
6500.00	0.00	0.00	6372.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
6600.00	0.00	0.00	6472.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
6700.00	0.00	0.00	6572.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
6800.00	0.00	0.00	6672.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
6900.00	0.00	0.00	6772.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7000.00	0.00	0.00	6872.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7001.56	0.00	0.00	6874.00	-38.03	1132.80	1133.44	0.00	0.00	0.00	NORTH HORN
7100.00	0.00	0.00	6972.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7200.00	0.00	0.00	7072.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7300.00	0.00	0.00	7172.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7400.00	0.00	0.00	7272.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7500.00	0.00	0.00	7372.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7600.00	0.00	0.00	7472.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7700.00	0.00	0.00	7572.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7800.00	0.00	0.00	7672.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
7900.00	0.00	0.00	7772.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
8000.00	0.00	0.00	7872.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
8100.00	0.00	0.00	7972.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
8200.00	0.00	0.00	8072.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
8300.00	0.00	0.00	8172.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
8400.00	0.00	0.00	8272.44	-38.03	1132.80	1133.44	0.00	0.00	0.00	
8476.56	0.00	0.00	8349.00	-38.03	1132.80	1133.44	0.00	0.00	0.00	PBHL #5-28-46

### Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec				
PBHL #5-28-46	-Circle (Radius: 200)		8349.00	-38.03	1132.80	7208650.65	1899212.49	40	6	21.234	N	110	34	29.100	W
-Plan hit target															

### Annotation

MD ft	TVD ft	
300.00	300.00	NUDGE
600.00	599.86	HOLD
1060.77	1060.00	TURN
1186.94	1186.00	KOP
1724.29	1716.84	HOLD
5386.35	5274.00	TOP OF TARGET
5655.02	5534.97	DROP
6440.56	6313.00	HOLD
8476.56	8349.00	PBHL

# WEATHERFORD DRILLING SERVICES

## WELL PLAN REPORT

**Company:** BILL BARRETT CORP  
**Field:** DUCHESNE COUNTY, UTAH  
**Site:** #5-28-46 DLB PAD  
**Well:** #5-28-46  
**Wellpath:** 1

**Date:** 1/30/2007      **Time:** 13:16:06      **Page:** 4  
**Co-ordinate(NE) Reference:** Site: #5-28-46 DLB PAD, True North  
**Vertical (TVD) Reference:** KB 6223.0  
**Section (VS) Reference:** Well (0.00N,0.00E,91.92Azi)  
**Survey Calculation Method:** Minimum Curvature      **Db:** Sybase

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2673.64	2639.00	TGR3		0.00	0.00
3471.50	3414.00	DOUGLAS CREEK		0.00	0.00
4150.96	4074.00	BLACK SHALE MARKER		0.00	0.00
4434.07	4349.00	CASTLE PEAK		0.00	0.00
5067.21	4964.00	WASATCH		0.00	0.00
7001.56	6874.00	NORTH HORN		0.00	0.00

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1000.69	1000.00	0.000	0.000	CASING PT.

# BILL BARRETT CORPORATION

#7-29-46 DLB & 5-28-46 DLB

LOCATED IN DUCHESNE COUNTY, UTAH  
SECTION 29, T4S, R6W, U.S.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: WESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

**UELS**

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

**LOCATION PHOTOS**

**07 14 06**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: D.R.

DRAWN BY: L.K.

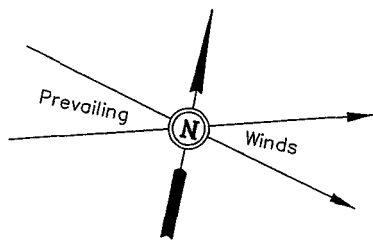
REV: 11-28-06J.L.G.

# BILL BARRETT CORPORATION

## LOCATION LAYOUT FOR

#7-29-46 DLB & #5-28-46 DLB  
SECTION 29, T4S, R6W, U.S.B.&M.

SE 1/4 NE 1/4



SCALE: 1" = 60'  
DATE: 7-13-06  
Drawn By: K.G.  
Revised: 11-29-06

Proposed Access Road

C-1.2'  
El. 209.8'

C-0.7'  
El. 209.1'

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.

Reserve Pit Backfill & Spoils Stockpile

S89°00'43"W - 1510.35'  
(To Bottom Hole)

C-8.7'  
El. 209.1'  
(btm. pit)

C-0.4'  
El. 208.8'

C-0.4'  
El. 208.8'

C-0.5'  
El. 208.9'

C-2.0'  
El. 210.4'

Sta. 1+80

S88°05'01"E - 1133.15'  
(To Bottom Hole)

Sta. 0+50

C-9.0'  
El. 209.4'  
(btm. pit)

C-0.4'  
El. 208.8'

C-0.2'  
El. 208.6'

Sta. 0+00

C-0.3'  
El. 208.7'

C-0.5'  
El. 208.9'

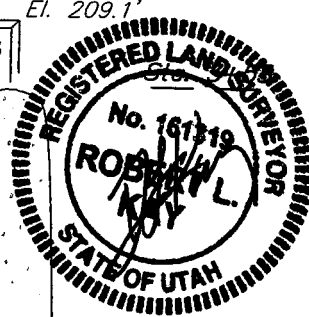
Reserve Pit Backfill & Spoils Stockpile

Approx.  
Top of  
Cut Slope

Elev. Ungraded Ground at #7-29 Location Stake = 6208.8'

Elev. Graded Ground at #7-29 Location Stake = 6208.4'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017





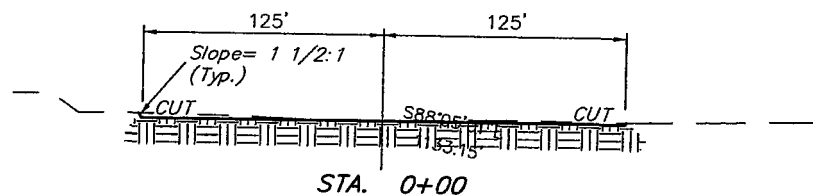
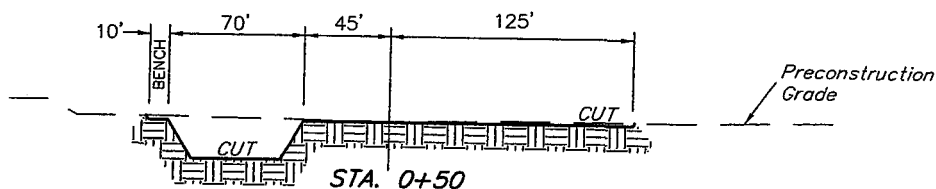
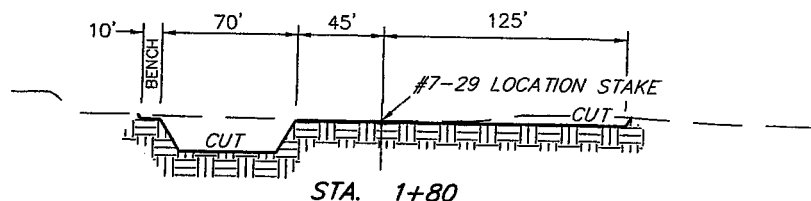
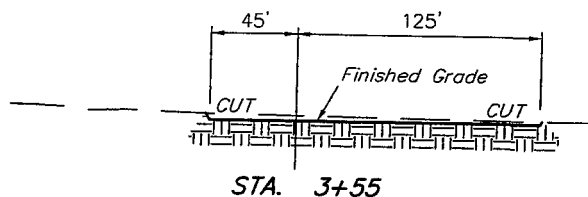
# BILL BARRETT CORPORATION

## TYPICAL CROSS SECTIONS FOR

#7-29-46 DLB & #5-28-46 DLB  
SECTION 29, T4S, R6W, U.S.B.&M.  
SE 1/4 NE 1/4

1" = 40'  
X-Section  
Scale  
1" = 100'

DATE: 7-13-06  
Drawn By: K.G.  
Revised: 11-29-06



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

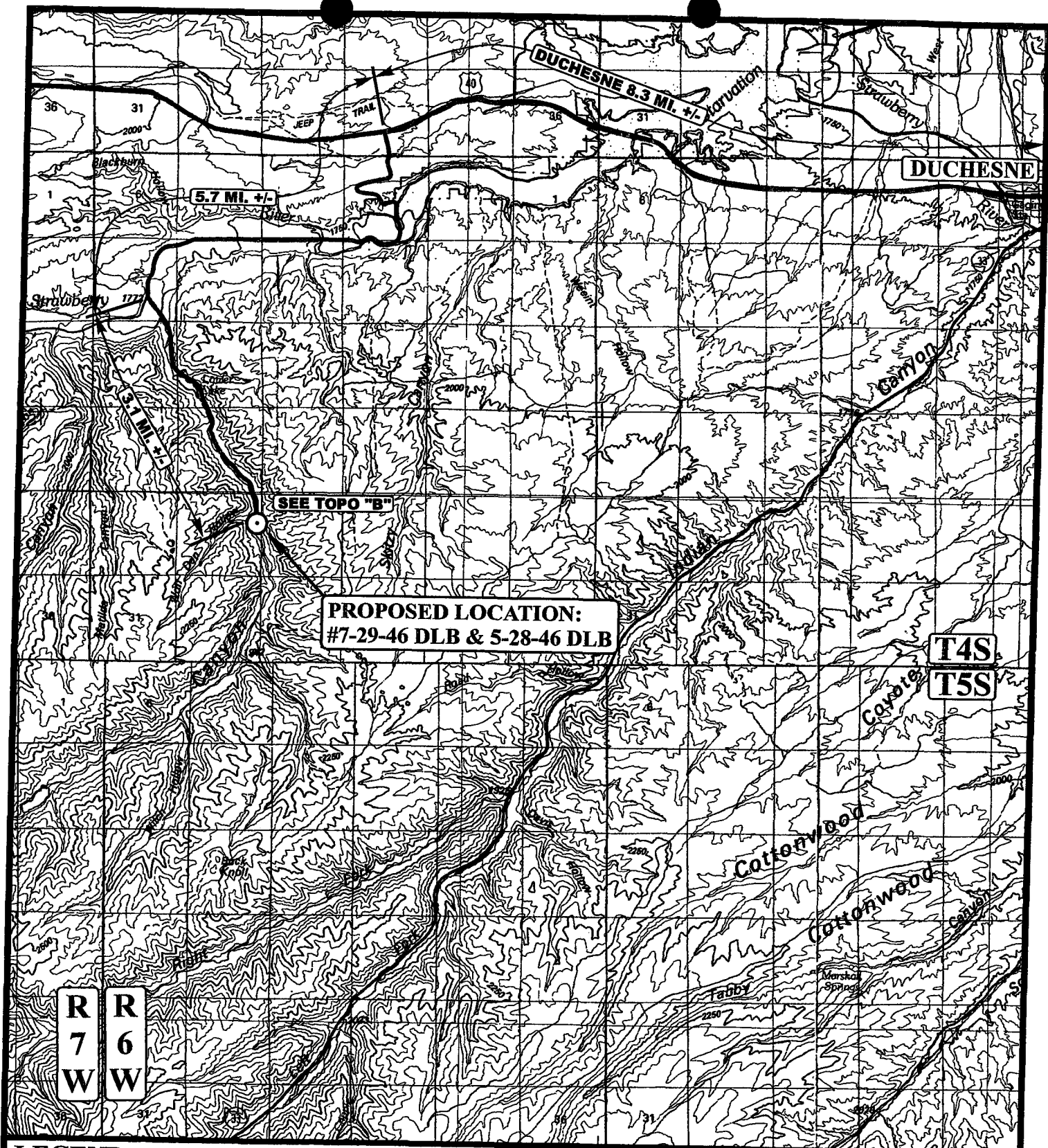
\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

(12") Topsoil Stripping = 2,890 Cu. Yds.  
Remaining Location = 2,930 Cu. Yds.  
  
TOTAL CUT = 5,820 CU.YDS.  
FILL = 980 CU.YDS.

EXCESS MATERIAL = 4,840 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 4,340 Cu. Yds.  
EXCESS UNBALANCE = 500 Cu. Yds.  
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



# **LEGEND:**

○ PROPOSED LOCATION

N

**BILL BARRETT CORPORATION**

#7-29-46 DLB & 5-28-46 DLB  
SECTION 29, T4S, R6W, U.S.B.&M  
SE 1/4 NE 1/4



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

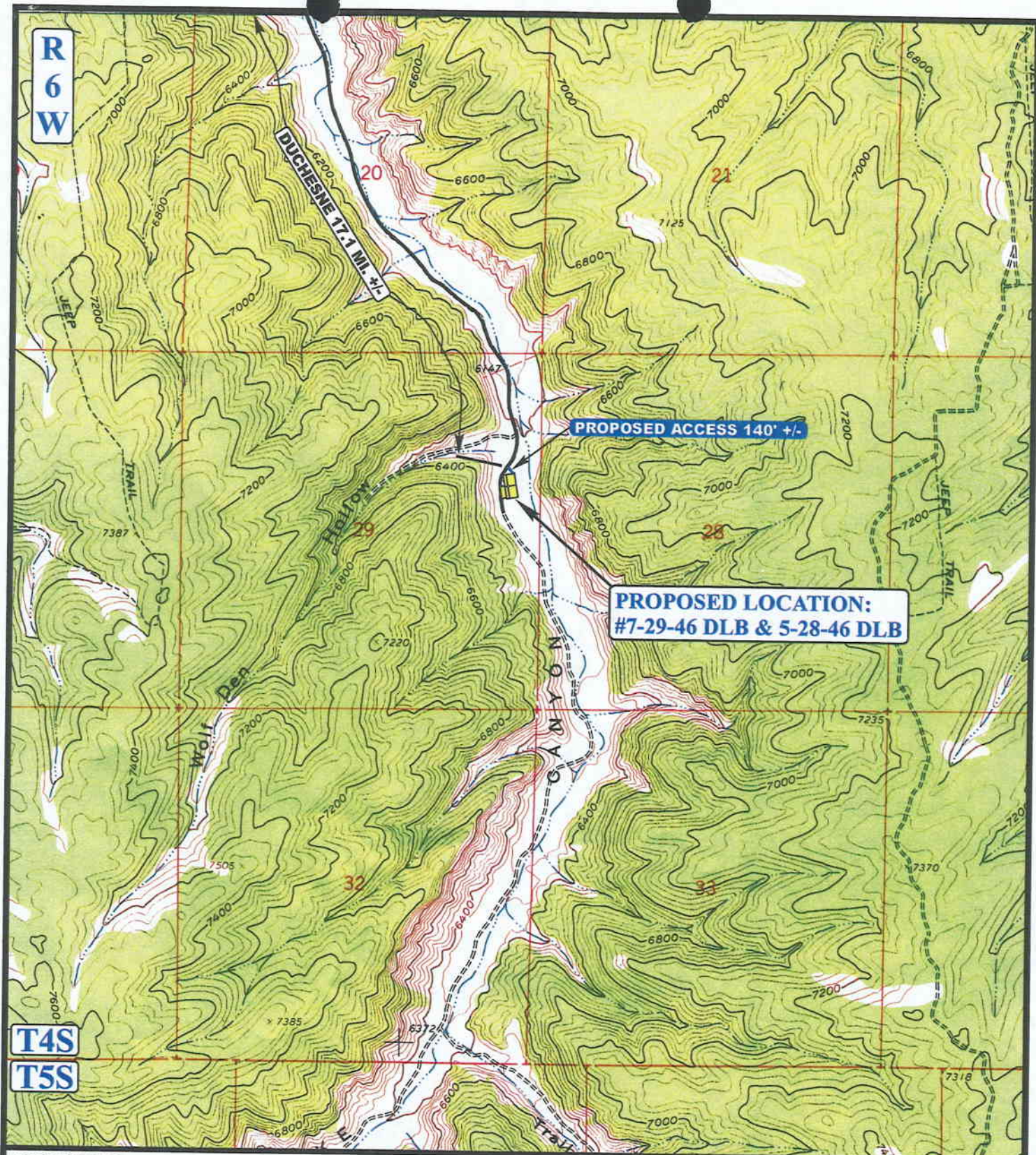
TOPOGRAPHIC  
MAP

07 14 06  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: L.K. REV: 11-28-06J.L.G.

A  
TOPO





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD



**BILL BARRETT CORPORATION**

#7-29-46 DLB & 5-28-46 DLB  
SECTION 29, T4S, R6W, U.S.B.&M  
SE 1/4 NE 1/4



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

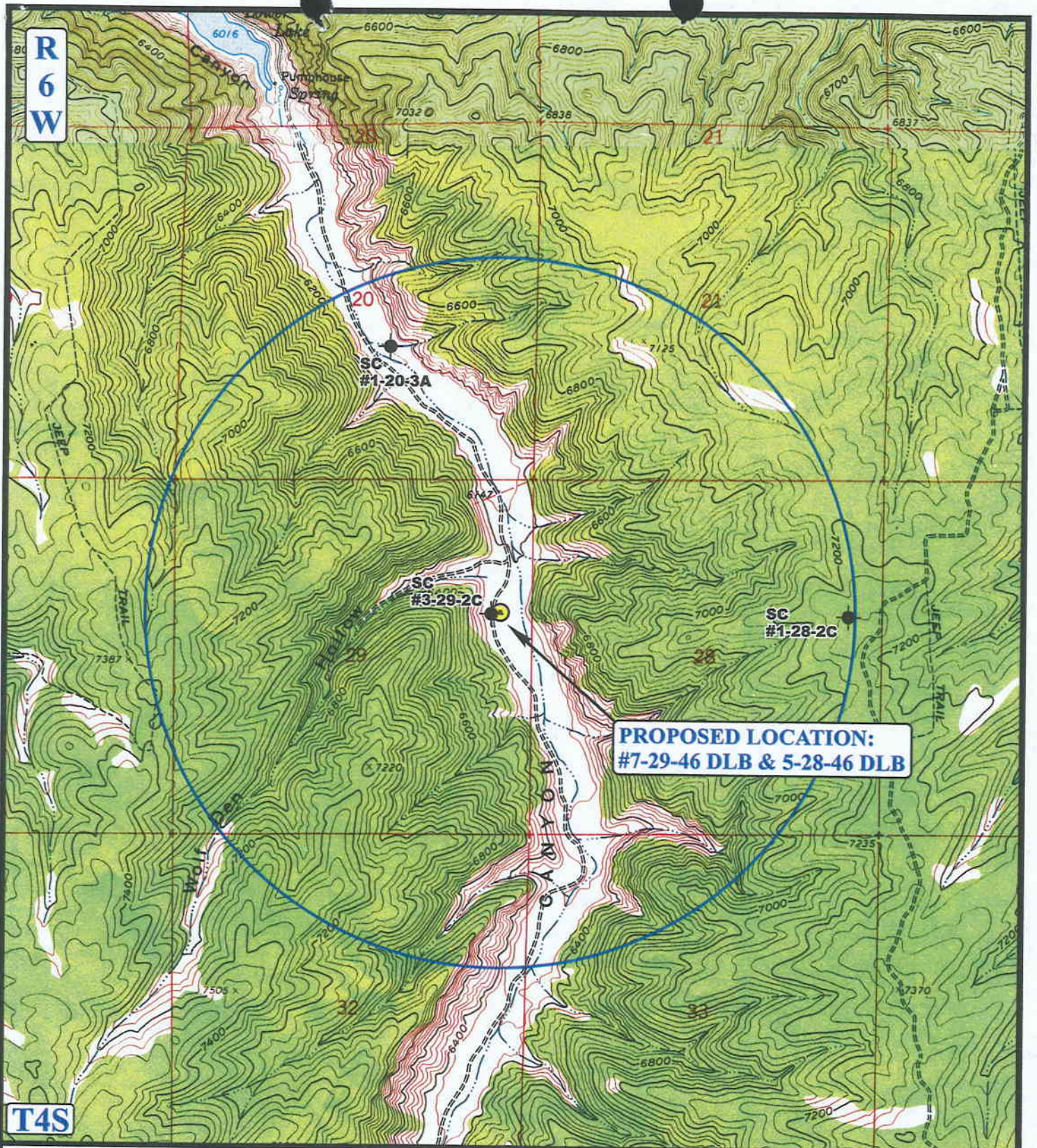
**TOPOGRAPHIC  
MAP**

**07 14 06**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REV: 11-28-06 J.L.G.

**B  
TOPO**





# **LEGEND:**

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

## **BILL BARRETT CORPORATION**

**#7-29-46 DLB & 5-28-46 DLB**  
**SECTION 29, T4S, R6W, U.S.B.&M**  
**SE 1/4 NE 1/4**

**TOPOGRAPHIC**  
**MAP**

**07 14 06**  
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: L.K.

REV: 11-28-06 J.L.G.





**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/07/2007

API NO. ASSIGNED: 43-013-33583

WELL NAME: 5-28-46 DLB

OPERATOR: BILL BARRETT CORP ( N2165 )

CONTACT: REED HADDOCK

PHONE NUMBER: 303-312-8546

**PROPOSED LOCATION:**

SENE 29 040S 060W

SURFACE: 1943 FNL 0473 FEL

BOTTOM: 1980 FNL 0660 FWL *Sec 28*

COUNTY: DUCHESNE

LATITUDE: 40.10599 LONGITUDE: -110.5781

UTM SURF EASTINGS: 535959 NORTHINGS: 4439396

FIELD NAME: ALTAMONT ( 55 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-5500

SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: NHORN

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. WYB000040 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

**LOCATION AND SITING:**

\_\_\_ R649-2-3.  
Unit: \_\_\_\_\_  
\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
\_\_\_ R649-3-3. Exception  
\_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
☒ R649-3-11. Directional Drill

COMMENTS:

*Needs Permit (03-27-07)*

STIPULATIONS:

*1- Federal Approval  
2- Spacing Shp  
3- STATEMENT OF BASIS*

T4S R6W

# ALTAMONT FIELD

20  
SKITZY CYN  
UTE 1-20-3A

21  
BHL  
7-21-46 DLB  
7-21-46 DLB  
SKITZY CYN  
UTE 21 1-21-3A  
LC TRIBAL  
16-21-46

SKITZY CYN  
UTE 4-22-1A

SKITZY CYN  
UTE 1-22-2A

SKITZY CYN  
UTE 3-22-1C

SKITZY CYN  
UTE 2-22-2C

29  
BHL  
7-29-46 DLB  
SKITZY CYN  
UTE 3-29-2C  
5-28-46 DLB  
7-29-46 DLB  
BHL  
5-28-46 DLB

28  
LC TRIBAL 8-28-46  
7-28-46 DLB  
SKITZY CYN  
UTE 1-28-2C  
BHL  
7-28-46 DLB

27  
5-27-46 DLB  
BHL  
5-27-46 DLB

SKITZY CYN  
UTE 1-27-4B

UTE TRIBAL  
1-34

UTE TRIBAL  
1-33  
5-34-46 DLB

T5S R6W

OPERATOR: BILL BARRETT CORP (N2165)

SEC: 21,27,28,29 T.4S R. 6W

FIELD: ALTAMONT (55)

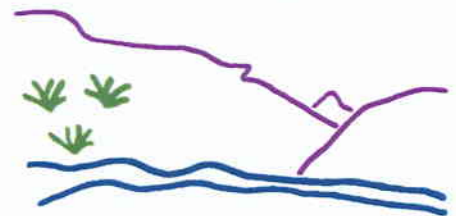
COUNTY: DUCHESNE

SPACING: R649-3-11 / DIRECTIONAL DRILLING

Field Status  
 ABANDONED  
 ACTIVE  
 COMBINED  
 INACTIVE  
 PROPOSED  
 STORAGE  
 TERMINATED

Unit Status  
 EXPLORATORY  
 GAS STORAGE  
 NF PP OIL  
 NF SECONDARY  
 PENDING  
 PI OIL  
 PP GAS  
 PP GEOTHERML  
 PP OIL  
 SECONDARY  
 TERMINATED

Wells Status  
 GAS INJECTION  
 GAS STORAGE  
 LOCATION ABANDONED  
 NEW LOCATION  
 PLUGGED & ABANDONED  
 PRODUCING GAS  
 PRODUCING OIL  
 SHUT-IN GAS  
 SHUT-IN OIL  
 TEMP. ABANDONED  
 TEST WELL  
 WATER INJECTION  
 WATER SUPPLY  
 WATER DISPOSAL  
 DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
 DATE: 8-MARCH-2007

# Application for Permit to Drill

## Statement of Basis

Utah Division of Oil, Gas and Mining

4/11/2007

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
289	43-013-33583-00-00		GW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>		
<b>Well Name</b>	5-28-46 DLB		<b>Unit</b>		
<b>Field</b>	ALTAMONT		<b>Type of Work</b>		
<b>Location</b>	SENE 29 4S 6W U 1943 FNL 473 FEL GPS Coord (UTM) 535959E 4439396N				

### Geologic Statement of Basis

The mineral rights at the proposed location are owned by the Ute Indian Tribe. The BLM will be the agency responsible for evaluating and approving the proposed drilling, casing and cement programs.

Brad Hill  
APD Evaluator

4/11/2007  
Date / Time

### Surface Statement of Basis

The general area is within the Lake Canyon drainage. Lake Canyon is named for a reservoir lake located in the canyon bottom approximately 8 road miles up canyon from the confluence of Lake Canyon drainage with the Strawberry River. The City of Duchesne is approximately 14 road miles to the east of the road junction leading to Lake Canyon. Access to the area is by State of Utah and Duchesne County paved highways to the Lake Canyon graveled Duchesne County Road. The Lake Canyon County road is at times narrow and crosses one bridge, which the County and oil companies are planning to replace. The #7-29-46 DLB and #5-28-46 DLB proposed gas wells as well as other wells in Lake Canyon will be accessed by this road.

Topography in the Lake Canyon area consists of a wide-bottomed canyon rimmed by excessively steep or vertical sidewall cliffs. Outwash plains or deposits of till are common along both sides of the canyon. A few narrow bottomed side drainages exist and have similar steep sides. A perennial stream exists and flows into the Lake originating at springs approximately 1-1/2 miles upstream. Overflow from the lake subs into the bottom of the drainage a short distance below the lake, depending on the amount of flow for the particular year and time of the year. Seeps and small springs infrequently occur within the drainage.

The proposed #7-29-46 DLB gas well will be on a twin pad with the #5-28-46 DLB well. The location is in the greasewood covered flat bottom of Lake Canyon a short distance above the side drainage of Wolf Den Hollow. Both are directional wells with targets under the near vertical canyon walls to the east and west. Part of the location will occupy the location of a well plugged in 1982, Skitzzy Cyn Ute 3-29-26. Imported borrow may be needed for both the access road and the location. At the time of the presite the ground surface was moist. It appears the soil lacks much rock and the surface may not support equipment.

Robert Pender owns the surface and the minerals are owned by the United States Government and held in trust for the Ute Indian Tribe. Both Mr. Pender and the BLM, who administers the minerals for the tribe, were invited to the pre-site review but neither attended.

Floyd Bartlett  
Onsite Evaluator

3/27/2007  
Date / Time

### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** BILL BARRETT CORP  
**Well Name** 5-28-46 DLB  
**API Number** 43-013-33583-0 **APD No** 289 **Field/Unit** ALTAMONT  
**Location:** 1/4,1/4 SENE **Sec** 29 **Tw** 4S **Rng** 6W 1943 FNL 473 FEL  
**GPS Coord (UTM)** 535954 4439418 **Surface Owner**

### **Participants**

Floyd Bartlett (DOGM), Mike Beath and Jeff Stringham (Bill Barrett Corp.), Roger Mitchell (Dirt Contractor), Ben Williams (UDWR)

### **Regional/Local Setting & Topography**

The general area is within the Lake Canyon drainage. Lake Canyon is named for a reservoired lake located in the canyon bottom approximately 8 road miles up canyon from the confluence of Lake Canyon drainage with the Strawberry River. The City of Duchesne is approximately 14 road miles to the east of the road junction leading to Lake Canyon. Access to the area is by State of Utah and Duchesne County paved highways to the Lake Canyon graveled Duchesne County Road. The Lake Canyon County road is at times narrow and crosses one bridge, which the County and oil companies are planning to replace. The #7-29-46 DLB and #5-28-46 DLB proposed gas wells as well as other wells in Lake Canyon will be accessed by this road.

Topography in the Lake Canyon area consists of a wide-bottomed canyon rimmed by excessively steep or vertical sidewall cliffs. Outwash plains or deposits of till are common along both sides of the canyon. A few narrow bottomed side drainages exist and have similar steep sides. A perennial stream exists and flows into the Lake originating at springs approximately 1-1/2 miles upstream. Overflow from the lake subs into the bottom of the drainage a short distance below the lake, depending on the amount of flow for the particular year and time of the year. Seeps and small springs infrequently occur within the drainage.

The proposed #7-29-46 DLB gas well will be on a twin pad with the #5-28-46 DLB well. The location is in the greasewood covered flat bottom of Lake Canyon a short distance above the side drainage of Wolf Den Hollow. Both are directional wells with targets under the near vertical canyon walls to the east and west. Part of the location will occupy the location of a well plugged in 1982, Skitzzy Cyn Ute 3-29-26.

Robert Pender owns the surface and the minerals are owned by the United States Government and held in trust for the Ute Indian Tribe. Both Mr. Pender and the BLM, who administers the minerals for the tribe, were invited to the pre-site review but neither attended.

### **Surface Use Plan**

#### **Current Surface Use**

Grazing  
Wildlife Habitat  
Deer Winter Range

#### **New Road**

Miles	Well Pad	Src Const Material	Surface Formation
0.01	Width 245 Length 349	Onsite	UNTA

**Ancillary Facilities** N

### **Waste Management Plan Adequate?** Y

## Environmental Parameters

### **Affected Floodplains and/or Wetland N**

#### **Flora / Fauna**

Greasewood bottom with some cheat grass and mustard weed.

Livestock, deer, elk, coyotes and small mammals and birds.

#### **Soil Type and Characteristics**

Deep sandy loam. No surface rock.

#### **Erosion Issues N**

#### **Sedimentation Issues N**

#### **Site Stability Issues Y**

Imported borrow may be needed for the access road and to support the equipment on the location.

#### **Drainage Diversion Required N**

#### **Berm Required? N**

#### **Erosion Sedimentation Control Required? N**

Paleo Survey Run? N      Paleo Potential Observed? N      Cultural Survey Run? N      Cultural Resources? N

## Reserve Pit

### **Site-Specific Factors**

### **Site Ranking**

Distance to Groundwater (feet) 25 to 75

15

Distance to Surface Water (feet) >1000

0

Dist. Nearest Municipal Well (ft) >5280

0

Distance to Other Wells (feet) <300

20

Native Soil Type Mod permeability

10

Fluid Type Fresh Water

5

Drill Cuttings Normal Rock

0

Annual Precipitation (inches) <10

0

Affected Populations <10

0

Presence Nearby Utility Conduits Not Present

0

### **Final Score**

50

1

### **Sensitivity Level**

### **Characteristics / Requirements**

A reserve pit is planned in an area of cut in the southwest corner of the location. Dimensions are 70' x 180' x 8' deep. A minimum of a 16 mil liner is required..

Closed Loop Mud Required? N      Liner Required? Y      Liner Thickness 16      Pit Underlayment Required? Y

## Other Observations / Comments

Imported borrow may be needed for both the access road and the location. At the time of the presite the ground surface was moist. It appears the soil lacks much rock and the surface may not support equipment.

Floyd Bartlett  
**Evaluator**

3/27/2007  
**Date / Time**





May 9, 2007

Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

# 5-28-46 DLB (Old Well Name – # 9 DLB 8-29-46)  
Fee Surface/Tribal Minerals  
SENE, Section 29-T4S-R6W (SHL)  
SWNW, Section 28-T4S-R6W (BHL)  
Duchesne County, Utah

Dear Diana Mason, Permitting - Petroleum Technician:

BBC submitted the original APD for the above mentioned well on March 5, 2007. The Utah Division of Oil, Gas and Mining have been waiting for the signed SUA before approving and issuing an API number for this well. Enclosed find two copies of the signed and executed Surface Use Agreement (SUA) between Bill Barrett Corporation (BBC) and Jerry D. Coates, Trustee of the Coates Family Trust, et al. This SUA effects the above mentioned location and the 7-29-46 DLB. It is BBC's request that an API number be issued as soon as possible.

Please contact me at (303) 312-8546 if you need anything additional or have any questions.

Sincerely,

Reed Haddock  
Permit Analyst

Enclosures

RECEIVED  
MAY 11 2007  
DIV. OF OIL, GAS & MINING

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

## SURFACE DAMAGE AND RIGHT-OF-WAY SETTLEMENT AGREEMENT

This Agreement, made and entered into this the 2nd day of April, 2007, by and between Wilcox Investment Company, Inc., c/o R.J. Pinder, P.O. Box 1329, Park City, UT 84060; Jerry D. Coates and Janice Coates, Trustees of the Coates Family Trust dated February 24, 1993, 5995 West 9600 North, Highland, UT 84003 and Nancy O. Duncan, a widow, 308 West Antelope Drive, #H, Layton, UT 84041 ("Surface Owner") and Bill Barrett Corporation, 1099 18<sup>th</sup> Street, Suite 2300, Denver CO 80202, ("BBC").

### WITNESSETH THAT:

WHEREAS, BBC owns undivided interests in certain oil and gas leases ("leases") covering and affecting the E1/2SE1/4NE1/4 of Section 29, Township 4 South, Range 6 West, USM, of Duchesne County, Utah; and,

WHEREAS, such leases grant to BBC the right and privilege of ingress, egress, exploring, drilling, mining, operating for, producing and owning oil and gas and all other products produced therewith, together with the right to make surveys on said lands, lay pipelines, construct roads and bridges, dig canals, build power stations, telephone lines, employee houses and other structures on said lands, necessary or useful in BBC's operations; and,

WHEREAS, BBC, intends to drill two wells from a common drill-site pad at a legal drill-site location in the E1/2SE1/4NE1/4 of Section 29, Township 4 South Range 6 West, USM, Duchesne County, Utah; and,

WHEREAS, Surface Owner warrants ownership to the surface of at least specific portions of the E1/2SE1/4NE1/4 of Section 15, Township 4 South, Range 6 West, USM, Duchesne County, Utah, and which warranted ownership is further subject to all oil, gas and other mineral rights which are reserved for the use and benefit of the owners thereof; and,

WHEREAS, BBC has agreed to reimburse Surface Owner for actual damages and injuries to all crops, timber, fences and other improvements located on the surface which results from BBC's operations hereunder, provided that BBC shall not be held liable or responsible for acts of providence or occurrences beyond BBC's control, such payment to be made upon commencement of operations to construct the wellsite pad; so,

NOW, THEREFORE, in consideration of TEN (10) AND MORE DOLLARS (\$10.00) and other good and valuable consideration paid by BBC to Surface Owner, the receipt and sufficiency of which is hereby acknowledged, said Surface Owner does hereby release BBC, its agents, employees, licensees, permittees, successors and assigns from all claims for damages as hereinafter provided, which are occasioned by any drilling, testing, completing, producing, operating, reworking and abandoning operations conducted by BBC at the above mentioned well, and agrees that BBC, its agents, employees, licensees, permittees, successors and assigns, may enter upon said premises and construct and maintain such roadways, bridges, and other means of access as are necessary to enable BBC on said location, for the purpose of erecting all necessary surface equipment, including but not limited to separators and tank battery storage facilities and other related facilities for the operating of the subject wells or any other well(s) operated by BBC in the general area. Said location and road to be located as shown on Exhibit "A" attached hereto.

For the same consideration, Surface Owner does hereby grant and convey unto BBC, its successors and assigns, the right, at any time and from time to time, to lay, construct, reconstruct, replace, renew, operate, maintain, repair, change the size of, and remove pipes and pipelines for the transportation of oil, petroleum or any of its products, gas, water, saltwater and other substances, or any byproducts thereof, along, over, through, upon under and across the route of any such lines constructed hereunder, together with rights of ingress and egress to and from said line or lines for the purposes aforesaid. Such pipeline or pipelines to be buried to a depth below ordinary plow depth. Such pipeline or pipelines to be constructed within the boundaries of the right-of-way granted herein as shown on Exhibit "A" attached hereto.

Surface Owner hereby releases BBC, its successors and assigns, from any and all damages and claims asserted. The consideration paid by BBC to Surface Owner is accepted by Surface Owner as full and final satisfaction for any and all damages and claims for damages to the surface which result from any of BBC's operations and privileges granted under the above Leases. Surface Owner hereby waives the right to collect any further and additional damages that may hereafter be asserted in connection with BBC's use of the land as further described on Exhibit "A" attached hereto and agrees to accept in lieu of any such future claims the agreed upon payment provided for in this Agreement.

Nothing herein shall alter or affect the rights of either party hereto with respect to surface use or disturbance of Surface Owner's land surrounding the drillsite locations, respectively, and BBC agrees to give Surface Owner advance notice of its intended use of any such surrounding land before commencing any operations thereon pursuant to its rights.

Surface Owner and BBC do hereby release, discharge and acquit the other from any and all liability, and shall indemnify the other against any and all claims and demands for damages, attorneys fees, injury or loss, existing now or done hereafter, to the surface of said lands or to any third parties arising out of or being the result of their or their agents, contractors licensees, permittees, successors and assigns own activities on or use of the subject property. However, such parties' potential liability under this paragraph to the other shall be limited to the acts and/or omission of its, or its predecessors, agents, contractors, licensees, permittees, successor and assigns, and shall not include any acts and/or omissions of the other party, its agents, contractors, licensees, permittees, successors or assigns. BBC shall reasonably maintain the subject property in order to prevent unnecessary deterioration of the surface and to keep the property in an uncluttered condition.

Any topsoil which is removed by BBC on Surface Owner's land will be stockpiled at the drillsite and will be redistributed on the drillsite upon completion of all operations and the land reseeded with grasses and/or native plants by BBC upon written request by Surface Owner. All mud pits will be filled and material and debris will be removed from the drillsite upon completion of operations. BBC shall have the right to remove from the lands covered hereby, at any time during the term hereof or within six (6) months after the termination of this Agreement, any or all structures, pipes, equipment and other facilities placed on, over, under, through and across any lands covered hereby, excepting fences, culverts, and other land improvements required by the Surface Owner, and title thereto shall be vested in BBC at all times, and shall in no event be considered or construed as fixtures thereto.

BBC shall maintain all roads used pursuant to this Agreement and shall install culverts where necessary to insure adequate drainage from all roads. BBC shall install cattleguards where necessary.

This Agreement shall inure to the benefit of the parties hereto, their heirs, successors and assigns and shall be a burden running with the land.

This Agreement may be executed in any number of counterparts and all such counterparts shall be deemed to constitute a single Agreement and the execution of one counterpart by any party hereto shall have the same force and effect as if said party had signed all other counterparts.

IN WITNESS WHEREOF, the parties have executed this Surface Damage Settlement Agreement effective as of the 9th day of April, 2007.

SURFACE OWNER  
WILCOX INVESTMENT COMPANY  
INC.

BILL BARRETT CORPORATION

[Signature]  
By: R.J. Pinder, its President

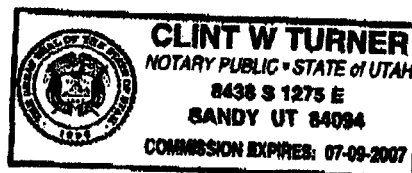
By: [Signature]  
Huntington T. Walker  
Its: Vice President - Land

STATE OF UTAH )  
COUNTY OF SUMMIT )

On the 10<sup>th</sup> day of April, 2007, personally appeared before me R.J. Pinder, who, being by me duly sworn, did say that he is the President of Wilcox Investment Company, Inc. and that said instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors and said R.J. Pinder acknowledged to me that said corporation executed the same.

[Signature]  
Notary Public  
Residing at: Sandy, UT

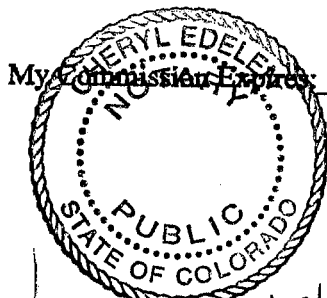
My Commission Expires: 7-9-07



STATE OF COLORADO )  
COUNTY OF DENVER )

On the 7th day of May, 2007, personally appeared before me Huntington T. Walker, who, being by me duly sworn, did say that he is the Vice President - Land of Bill Barrett Corporation and that said instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors and said Huntington T. Walker acknowledged to me that said corporation executed the same.

[Signature]  
Notary Public  
Residing at: DENVER, CO



My Commission Expires 12/29/09

SURFACE OWNER

Jerry D. Coates TRUSTEE OF THE COATES FAMILY TRUST  
 Jerry D. Coates, Trustee of the Coates  
 Family Trust dated February 24, 1993

Janice O. Coates Trustee of the Coates Family Trust  
 Janice O. Coates, Trustee of the Coates  
 Family Trust dated February 24, 1993

STATE OF UTAH )

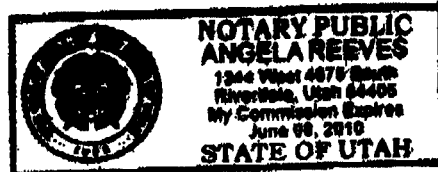
COUNTY OF Utah )

On the 12 day of April, 2007, personally appeared before me Janice O. Coates, as Trustee of the Coates Family Trust dated February 24, 1993, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purpose and consideration therein expressed.

Angela Reeves  
 Notary Public

Residing at: 949 W. Grassland dr  
American Fork UT 84013

My Commission Expires: June 8/2010



STATE OF ARIZONA )

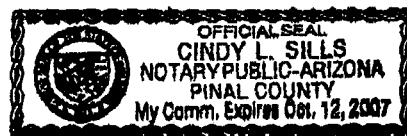
COUNTY OF PINAL )

On the 26th day of April, 2007, personally appeared before me Jerry D. Coates, as Trustee of the Coates Family Trust dated February 24, 1993, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein expressed.

Cindy L. Sills  
 Notary Public

Residing at: 150 N. Main St.  
Florence, AZ 85232

My Commission Expires: October 12, 2007



SURFACE OWNER

Nancy O. Duncan  
Nancy O. Duncan

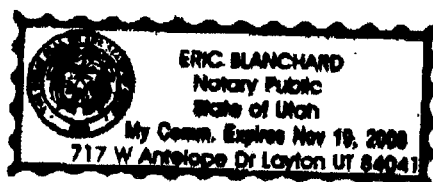
STATE OF UTAH )

COUNTY OF Davis )

On the 17<sup>th</sup> day of April, 2007, personally appeared Nancy O. Duncan, a widow, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein expressed.

Eric Blanchard  
Notary Public  
Residing at:

My Commission expires: 11-19-08





**TURNER PETROLEUM  
LAND SERVICES, INC.**  
8438 South 1275 East  
Sandy, Utah 84094  
(801) 561-8953

April 9, 2007

R.J. Pinder  
Wilcox Investment Company, Inc.  
PO Box 1329  
Park City, UT 84060

**Re Compensation for Surface Damage and Right-of-Way Settlement Agreement**

Dear Mr. Pinder:

By Agreement effective April 9, 2007, Wilcox Investment Company, Inc. granted to Bill Barrett Corporation a Surface Damage and Right-of-Way Settlement Agreement for the location of a wellsite pad located in the E1/2SE1/4NE1/4 of Section 29, Township 4 South, Range 6 West, USM, Duchesne County, Utah. As compensation for such Agreement Bill Barrett agrees to pay Wilcox and Wilcox agrees to accept the amount of \$2,873.18, with such compensation to be paid upon commencement of operations to construct the aforesaid wellsite.

Very truly yours,

Clint W. Turner, CPL  
Agent for Bill Barrett Corporation

Accepted and agreed to:  
Wilcox Investment Company, Inc.

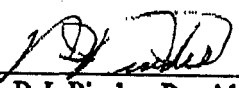
  
By: R.J. Pinder, President

April 9, 2007

To Whom It May Concern:

Please be advised that the undersigned, Wilcox Investment Company, Inc., as a partial owner of the surface estate of the E1/2SE1/4NE1/4 of Section 29, Township 4 South, Range 6 West, USM, Duchesne County, Utah, hereby waives the requirement to have an archeological survey conducted on the access road and pipeline corridor and the wellsite location situated in the E1/2SE1/4NE1/4 of said Section 29.

WILCOX INVESTMENT COMPANY, INC.

  
By: R.J. Pinder, President





TURNER PETROLEUM  
LAND SERVICES, INC.  
8438 South 1275 East  
Sandy, Utah 84094  
(801) 561-8953

April 9, 2007

Nancy O. Duncan  
308 West Antelope Drive #H  
Layton, UT 84041

**Re Compensation for Surface Damage and Right-of-Way Settlement Agreement**

Dear Mrs. Duncan:

By Agreement effective April 9, 2007, you granted to Bill Barrett Corporation a Surface Damage and Right-of-Way Settlement Agreement for the location of a wellsite pad located in the E1/2SE1/4NE1/4 of Section 29, Township 4 South, Range 6 West, USM, Duchesne County, Utah. As compensation for such Agreement Bill Barrett agrees to pay you and you agree to accept the amount of \$1,436.59, with such compensation to be paid upon commencement of operations to construct the aforesaid wellsite.

Very truly yours,

Clint W. Turner, CPL  
Agent for Bill Barrett Corporation

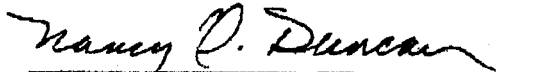
Accepted and agreed to:

Nancy O. Duncan

April 9, 2007

To Whom It May Concern:

Please be advised that I the undersigned Nancy O. Duncan, a widow, as a partial owner of the surface estate of the E1/2SE1/4NE1/4 of Section 29, Township 4 South, Range 6 West, USM, Duchesne County, Utah, hereby waives the requirement to have an archeological survey conducted on the access road and pipeline corridor and the wellsite location situated in the E1/2SE1/4NE1/4 of said Section 29.

  
Nancy O. Duncan



TURNER PETROLEUM  
LAND SERVICES, INC.  
8438 South 1275 East  
Sandy, Utah 84094  
(801) 561-8953

April 9, 2007

Mr. and Mrs. Jerry D. Coates  
5995 West 9600 North  
Highland, UT 84003

Re Compensation for Surface Damage and Right-of-Way Settlement Agreement

Dear Mr. and Mrs. Coates:

By Agreement effective April 9, 2007, you, as Trustees of the Coates Family Trust dated February 24, 1993, granted to Bill Barrett Corporation a Surface Damage and Right-of-Way Settlement Agreement for the location of a wellsite pad located in the E1/2SE1/4NE1/4 of Section 29, Township 4 South, Range 6 West, USM, Duchesne County, Utah. As compensation for such Agreement Bill Barrett agrees to pay you and you agree to accept the amount of \$1,436.59, with such compensation to be paid upon commencement of operations to construct the aforesaid wellsite.

Very truly yours,

Clint W. Turner, CPL  
Agent for Bill Barrett Corporation

Accepted and agreed to:

  
Jerry D. Coates, Trustee  
Janice Coates, Trustee

April 9, 2007

To Whom It May Concern:

Please be advised that we the undersigned, Jerry D. Coates and Janice Coates, Trustees of the Coates Family Trust dated February 24, 1993, as a partial owner of the surface estate of the E1/2SE1/4NE1/4 of Section 29, Township 4 South, Range 6 West, USM, Duchesne County, Utah, hereby waives the requirement to have an archeological survey conducted on the access road and pipeline corridor and the wellsite location situated in the E1/2SE1/4NE1/4 of said Section 29.

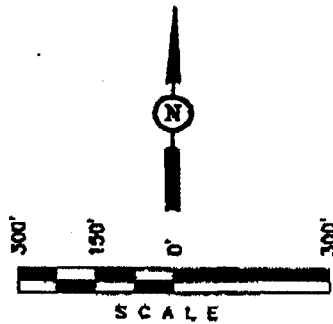
Jerry D. Coates TRUSTEE OF COATES FAMILY TRUST  
Jerry D. Coates, Trustee of the Coates Family  
Trust dated February 24, 1993

Janice Coates Trustee of The COATES FAMILY TRUST  
Janice Coates, Trustee of the Coates Family  
Trust dated February 24, 1993

**HILL BARRETT CORPORATION**  
**LOCATION DAMAGE AREA**  
**& ROAD RIGHT-OF-WAY**  
**ON FEE LANDS**

(For #7-29-46 DLB  
 & #5-28-46 DLB)

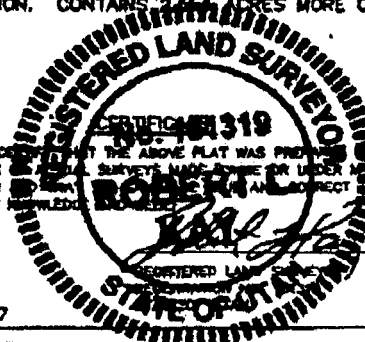
LOCATED IN  
 SECTION 29, T4S, R6W, U.S.B.&M.  
 DUCHESNE COUNTY, UTAH



**DAMAGE AREA DESCRIPTION**

BEGINNING AT A POINT IN THE SE 1/4 NE 1/4 OF SECTION 29, T4S, R6W, U.S.B.&M. WHICH BEARS S13°45'05"W 1801.42' FROM THE NORTHEAST CORNER OF SAID SECTION 29, THENCE N80°46'03"E 63.91'; THENCE S09°13'57"E 405.00'; THENCE S80°48'03"W 290.00'; THENCE N09°13'57"W 240.00'; THENCE N13°45'22"E 179.23'; THENCE N80°46'03"E 156.09' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 2.4 ACRES MORE OR LESS.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES AND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF IT IS CORRECT AND ACCURATE.



Revised: 1-18-07

**UTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH - 800 EAST • (435) 788-1077  
 VERNAL, UTAH - 84078

SCALE 1" = 300'	DATE 7-14-06
PARTY D.R. A.H. K.G.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE 47807

ST  
M.ST  
M.

CTHS

ACRES	RODS
6.078	6.850

L 04-87.73



Section Line

Investment  
Inc.

RVATION.

Set marked  
Stems, Steel  
Channel

## EXHIBIT "A"

S89°47'31"W - 2647.50' (Meas.)

Set Stone

Section Line

## ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SE 1/4 NE 1/4 OF SECTION 29, T4S, R6W, U.S.B.M. WHICH BEARS S16°51'21"W 1743.44' FROM THE NORTHEAST CORNER OF SAID SECTION 29, THENCE S49°19'15"E 87.73'; THENCE S34°38'46"E 45.29' TO A POINT IN THE SE 1/4 NE 1/4 OF SAID SECTION 29 WHICH BEARS S13°45'05"W 1801.42' FROM THE NORTHEAST CORNER OF SAID SECTION 29, THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.078 ACRES MORE OR LESS.

BEGINNING OF ROAD STA. 0+00 BEA S16°51'21"W 1743.44' FROM THE NORTHEAST CORNER OF SECTION 29, T4S, R6W,

END OF ROAD STA. 1+13.02 BEARS S13°45'05"W 1801.42' FROM THE NORTHEAST CORNER OF SECTION 29, T4S, R6W,

## RIGHT-OF-WAY

PROPERTY OWNER	F
WILCOX INVESTMENT CO. INC.	111

1/16 Section Line

## LINE TABLE

LINE	DIRECTION	LENGTH
L1	S49°19'15"E	87.73'
L2	S34°38'46"E	45.29'
L3	N80°46'03"E	63.91'
L4	S09°13'57"E	405.00'
L5	S80°46'03"W	290.00'
L6	N09°13'57"W	240.00'
L7	N13°45'22"E	179.23'
L8	N80°46'03"E	156.09'

1/4 Section Line

1/16 Section Line

BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY STA. 0+00 (At Eschling Road)

END OF PROPOSED ROAD RIGHT-OF-WAY STA. 1+13.02 (At Edge of Damage Area)

County Road #20

DAMAGE AREA  
#7-29-46 DLB & #5-28-46 D  
Contains 2.564 Acres

W4

Sec. 29

1/4 Section Line

SW 1/4

▲ = SECTION CORNERS LOCATED.

## BASIS OF BEA

BASIS OF BEARINGS IS A G.P.



**Bill Barrett Corporation**

March 12, 2007

Ms. Diana Mason – Petroleum Technician  
State of Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11  
Lake Canyon Area #5-28-46 DLB Well  
Surface: 1943' FNL & 473' FEL - SENE, 29-T4S-R6W  
Bottom Hole: 1980' FNL & 660' FWL - SWNW, 28-T4S-R6W  
Duchesne County, Utah

Dear Ms. Whitney:

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill ("APD") regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-11, pertaining to Directional Drilling and the Location and Siting of Wells.

- The above-mentioned proposed location is within our Lake Canyon Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area and also minimize surface disturbance.
- BBC hereby certifies it owns a working interest along with Berry Petroleum Company, and together we own 100% of the working interest within 460 feet of the entire directional well bore.
- Our ownership rights under our Exploration and Development Agreement with the Ute Indian Tribe and UDC provides for the drilling of exploratory wells. Said agreement provides that we consult with these owners regarding the drilling of this well.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. If you should have any questions or need further information, please contact me at 303-312-8129.

**RECEIVED**

**MAR 14 2007**

**DIV. OF OIL, GAS & MINING**

Sincerely,

Doug Gundry-White  
Senior Landman

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

T4S, R6W, U.S.B.&M.

BILL BARRETT CORPORATION

Well location, #5-28-46 DLB, located as shown in the SE 1/4 NE 1/4 of Section 29, T4S, R6W, U.S.B.&M. Duchesne County, Utah.

S89°46'W - 2649.24' (G.L.O.)

S89°47'51"W - 2647.50' (Meas.)

1/2" Rebar,  
0.2' High

5286.60' (G.L.O.)

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

#5-28-46 DLB

Elev. Ungraded Ground = 6209'

1943'

1980'

473'

660'

Bottom Hole

29

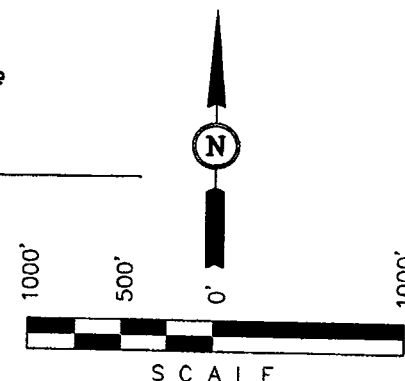
Sec. 28

NOTE:  
PROPOSED BOTTOM HOLE BEARS  
S88°05'01"E 1133.15' FROM THE  
PROPOSED WELL HEAD.

Set Marked  
Stone, Steel  
"C" Channel

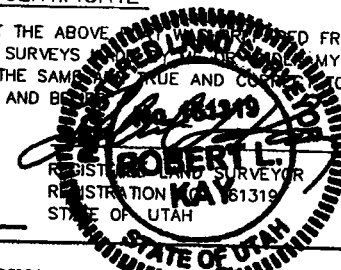
S89°52'W - 5291.88' (G.L.O.)

N00°19'22"E - 5272.45' (Meas.)



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE INFORMATION WAS OBTAINED FROM FIELD NOTES OF ACTUAL SURVEYS MADE UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)

LATITUDE = 40°06'21.61" (40.106003)

LONGITUDE = 110°34'43.68" (110.578800)

(NAD 27)

LATITUDE = 40°06'21.76" (40.106044)

LONGITUDE = 110°34'41.12" (110.578089)

LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 7-10-06	DATE DRAWN: 11-29-06
PARTY D.R. A.H. K.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE BILL BARRETT CORPORATION	





## State of Utah

### Department of Natural Resources

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

May 14, 2007

Bill Barrett Corporation  
1099 18th St., Ste. 2300  
Denver, CO 80202

Re: 5-28-46 DLB Well, Surface Location 1943' FNL, 473' FEL, SE NE, Sec. 29, T. 4 South, R. 6 West, Bottom Location 1980' FNL, 660' FWL, SW NW, Sec. 28, T. 4 South, R. 6 West, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33583.

Sincerely,

Gil Hunt  
Associate Director

pab

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Bill Barrett Corporation  
Well Name & Number 5-28-46 DLB  
API Number: 43-013-33583  
Lease: 14-20-H62-5500

Surface Location: SE NE Sec. 29 T. 4 South R. 6 West  
Bottom Location: SW NW Sec. 28 T. 4 South R. 6 West

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

# RECEIVED

MAR 12 2007

Form 3160-3  
(April 2004)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

BLM VERNAL, UTAH

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>BIA 14-20-H62-5500</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>UTE INDIAN TRIBE</b>
2. Name of Operator <b>BILL BARRETT CORPORATION</b>		7. If Unit or CA Agreement, Name and No. <b>N/A</b>
3a. Address <b>1099 18th Street, Suite 2300 Denver CO 80202</b>	3b. Phone No. (include area code) <b>(303) 312-8546</b>	8. Lease Name and Well No. <b># 5-28-46 DLB</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface <b>SENE, 1943' FNL, 473' FEL, Section 29, T4S, R6W</b> At proposed prod. zone <b>SWNW, 1980' FNL, 660' FWL, Section 28, T4S, R6W</b>		9. API Well No. <b>43.013.33583</b>
14. Distance in miles and direction from nearest town or post office* <b>Approximately 17.1 miles southwest of Duchesne, Utah</b>		10. Field and Pool, or Exploratory <b>Wildcat</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>473' SHL; 660' BHL</b>	16. No. of acres in lease <b>N/A</b>	11. Sec., T. R. M. or Blk. and Survey or Area <b>Section 29-T4S-R6W U.S.B.&amp;M.</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>Approximately 47'</b>	19. Proposed Depth <b>8477'</b>	12. County or Parish <b>Duchesne</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6209' Ungraded Ground</b>	22. Approximate date work will start* <b>06/01/2007</b>	13. State <b>UT</b>
17. Spacing Unit dedicated to this well <b>40</b>		
20. BLM/BIA Bond No. on file <b>Nationwide Bond #WYB000040</b>		
23. Estimated duration <b>45 days</b>		

### 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Reed Haddock</i>	Name (Printed/Typed) <b>Reed Haddock</b>	Date <b>03/05/2007</b>
Title <b>Permit Analyst</b>		

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) <b>Jerry Kewella</b>	Date <b>6-5-2007</b>
Title <b>Assistant Field Manager Lands &amp; Mineral Resources</b>		Office <b>VERNAL FIELD OFFICE</b>

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

## NOTICE OF APPROVAL

## CONDITIONS OF APPROVAL ATTACHED

RECEIVED

JUN 08 2007

DIV. OF OIL, GAS & MINING

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

**170 South 500 East VERNAL, UT 84078 (435) 781-4400**



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company: Bill Barrett Corp.  
Well No: 5-28-46 DLB  
API No: 43-013-33583**

**Location: SENE, Sec. 29, T4S, R6W  
Lease No: 14-20-H62-5500  
Agreement: N/A**

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	435-828-7368
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	

Fax: 435-781-4410

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

- |  |  |
|--|--|
| Location Construction<br>(Notify NRS/Enviro Scientist)                     | - Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify NRS/Enviro Scientist)                       | - Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)                                 | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Supervisory Petroleum Technician)     | - Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify Supervisory Petroleum Technician) | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)                     | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer AO. A report will be prepared by a BLM permitted paleontologist and submitted to the AO at the completion of surface disturbing activities.

**Specific Surface COAs**

- Fee Surface – No COAs

## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- All casing strings shall below the conductor shall be pressure tested to .22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of internal yield.
- A surface casing shoe integrity test shall be performed.
- Production casing cement shall be at a minimum 200' above the surface shoe and a CBL shall be run to top of cement. A field copy shall be provided to the Vernal Field Office.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment BOPE shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources such as Gilsontite, tar sands, oil shale, trona, etc. to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well

location, date and depth from KB or GL of encounter, vertical footage of the encounter and, the name of the person making the report along with a telephone number should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log CBL will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" Oil and Gas Operations Report OGOR starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 303 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location  $\frac{1}{4}$  Sec., Twn, Rng, and P.M..
  - Date well was placed in a producing status date of first production for which royalty will be paid.
  - The nature of the well's production, i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons.
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees NTL 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events fires, accidents, blowouts, spills, discharges as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" BLM Form 3160-4 shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys,

sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples cuttings, fluid, and/or gas shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" Form BLM 3160-5 must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: BIA 14-20-H62-5500
2. NAME OF OPERATOR: BILL BARRETT CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE INDIAN TRIBE
3. ADDRESS OF OPERATOR: 1099 18TH Street, Ste 2300 CITY DENVER STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1943' FNL x 473' FEL		8. WELL NAME and NUMBER: # 5-28-46 DLB
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 29 T4S R6W		9. API NUMBER: 4301333583
		10. FIELD AND POOL, OR WILDCAT: ALTAMONT
		COUNTY: DUCHESNE
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD EXTENSION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BILL BARRETT CORPORATION (BBC) REQUESTS A ONE-YEAR EXTENSION ON THE APD FOR THIS LOCATION. THE ORIGINAL APD WAS APPROVED ON MAY 14, 2007 AND EXPIRES MAY 14, 2008.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 05-06-08  
By: [Signature]

**COPY SENT TO OPERATOR**

Date: 5.7.2008  
Initials: KS

NAME (PLEASE PRINT) <u>REED HADDOCK</u>	TITLE <u>PERMIT ANALYST</u>
SIGNATURE <u>[Signature]</u>	DATE <u>5/1/2008</u>

(This space for State use only)

RECEIVED  
MAY 06 2008  
DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4301333583  
**Well Name:** 5-28-46 DLB  
**Location:** 1943' FNL, 473' FEL, SENE, SEC. 29, T4S, R6W  
**Company Permit Issued to:** BILL BARRETT CORPORATION  
**Date Original Permit Issued:** 5/14/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Reed Haddock  
Signature

5/1/2008  
Date

Title: PERMIT ANALYST

Representing: BILL BARRETT CORPORATION

**RECEIVED**  
**MAY 06 2008**  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: BIA 14-20-H62-5500
2. NAME OF OPERATOR: BILL BARRETT CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE INDIAN TRIBE
3. ADDRESS OF OPERATOR: 1099 18TH Street, Ste 2300 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1943' FNL, 473' FEL		8. WELL NAME and NUMBER: #5-28-46 DLB
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 29 T4S R6W		9. API NUMBER: 4301333583
COUNTY: DUCHESNE		10. FIELD AND POOL, OR WILDCAT: ALTAMONT
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD EXTENSION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BILL BARRETT CORPORATION (BBC) REQUESTS AN ADDITIONAL ONE-YEAR EXTENSION ON THE APD FOR THIS LOCATION. THE ORIGINAL APD WAS APPROVED ON MAY 14, 2007, THE PREVIOUS PERMIT EXTENSION WAS FILED ON MAY 1, 2008 AND EXPIRES ON MAY 6, 2009.

Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 5.12.2009

Initials: KS

Date: 05-11-09  
By: [Signature]

NAME (PLEASE PRINT) <u>Matt Barber</u>	TITLE <u>Permit Analyst</u>
SIGNATURE <u>[Signature]</u>	DATE <u>4/30/2009</u>

(This space for State use only)

RECEIVED  
MAY 06 2009



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4301333583  
**Well Name:** #5-27-46 DLB  
**Location:** 1943' FNL, 473' FEL, SENE, Sec. 29, T4S-R6W  
**Company Permit Issued to:** Bill Barrett Corporation  
**Date Original Permit Issued:** 5/14/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Matt Balur  
Signature

4/30/2009  
Date

Title: Permit Analyst

Representing: Bill Barrett Corporation

RECEIVED

MAY 06 2009

DIV. OF OIL, GAS & MINING



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Green River District-Vernal Field Office  
170 South 500 East  
Vernal, UT 84078  
(435) 781-4400 Fax: (435) 781-4410  
<http://www.blm.gov/ut/st/en/fo/vernal.html>

IN REPLY REFER TO:

3160

UTG011

August 6, 2009

Reed Haddock  
Bill Barrett Corporation  
1099 18<sup>th</sup> Street, Suite 2300  
Denver, CO 80202

43 013 33583

Re: Notice of Expiration  
Well No. 5-28-46 DLB  
SENE, Sec. 29, T4S, R6W  
Duchesne County, Utah  
Lease No. 14-20-H62-5500

Dear Mr. Haddock:

The Application for Permit to Drill for the above-referenced well was approved on June 5, 2007. No extension of the original APD was requested. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact me at (435) 781-4455.

Sincerely,

*Cindy Severson*

Cindy Severson  
Land Law Examiner

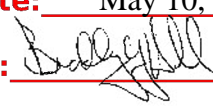
cc: UDOGM  
BIA  
Ute Tribe

RECEIVED

AUG 20 2009

DIV. OF OIL, GAS & MINING



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-5500			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 5-28-46 DLB			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1943 FNL 0473 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 29 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013335830000			
<b>PHONE NUMBER:</b> 303 312-8128 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT			
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/6/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION          OTHER: _____       </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  As per conversation between Brad Hill (DOGM Permitting Manager) and Tracey Fallang (BBC Permit Specialist) on May 6, 2010, BBC has been granted an additional year extension on the APD for this location. The original APD was approved on May 14, 2007. The previous permit extension expires on May 14, 2010.					
<b>NAME (PLEASE PRINT)</b> Matt Barber		<b>PHONE NUMBER</b> 303 312-8168			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Permit Analyst			
<b>DATE</b> 5/6/2010		<b>DATE:</b> May 10, 2010 <b>By:</b> 			

**RECEIVED** May 06, 2010



## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43013335830000

**API:** 43013335830000

**Well Name:** 5-28-46 DLB

**Location:** 1943 FNL 0473 FEL QTR SENE SEC 29 TWP 040S RNG 060W MER U

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 5/14/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Matt Barber

**Date:** 5/6/2010

**Title:** Permit Analyst **Representing:** BILL BARRETT CORP

**Date:** May 10, 2010

**By:**

**RECEIVED** May 06, 2010



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

August 3, 2011

Bill Barrett Corporation  
1099 18<sup>th</sup> Street, Ste. 2300  
Denver, CO 80202

Re: APD Rescinded – 5-28-46 DLB, Sec. 29 T. 4S, R. 6W  
Duchesne County, Utah API No. 43-013-33583

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on May 14, 2007. On May 6, 2008, May 11, 2009 and May 10, 2010, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective August 4, 2011.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
Brad Hill, Technical Service Manager

